

<211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-010-Q1-E1-G8

 <400> 16383

 cgtgattcgt gaacggcggc gacaagaagc cgggagagat gccgctggcc acaactgctc 60
 cgccgccctg tcctccgccg agtccagcag cggcaccagt ccggacgcag ctctctctct 120
 ccgtcgcgaa gctcgcgctc acggccgcgc tcgtctgcgg ctctggcggg cccgctgccg 180
 tcgtcgtcgt cgttccggcc gccgctcagg ccgtcccggt cgtccgtcct cctcctctct 240
 ccctgcaagg aaggccctta gcgtcctcca ctcttacgc gcagtcccag aagctgcagc 300
 ttggcctcga caagctcgga aatatcaggc catgcgcgtc aaacaaccgc ggggtgcgtgt 360
 cgagcaaccc gcggggattc tcgggccctt tctcctcgac agggctcatc cgggga 416

<210> 16384
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-010-Q1-E1-H10

 <400> 16384

 ctccaggcgt caggtgggtg ttgtggacct gctttgatta aaaggttcaa ggaagagata 60
 aatgaactgg gacttgatga tcaggtggct gtcagtgcac gctcacacgt gggagggtcat 120
 aagtatgcag gaaatgtcat cattttcagt tctgatgcca agggagaagt gactgggtcat 180
 tggatatggt atgttggtcc tgatgatgtg cctgttttgc tgcataaaca tattggacaa 240
 ggagaagttg tggaccatct atggagggga cagatagggt tatctgtgga gcagcagaag 300
 cgagctctcg agcttcggaa catggtaa atgtggcgaag aatcccttga agaaaccaga 360
 acagatggtg cttctttcag ccctgcagca gctgggtggat gctg 404

<210> 16385
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-010-Q1-E1-H11

<400> 16385

gagaagtgcc acaaactccg caaactgcat gtggatgggt ggcgcacaga caggattgga 60
gatttcggac tcatggctgt ggcacgagga tgtccagatc tgcaggagct cgttttgata 120
gggggtcaacc ccaccgtgct gagccttcgg atgcttgggtg agcactgccg gttgctggaa 180
cggctggcac tttgcgggtg tgaaactgtg ggggatgctg agatcatttg cttggctgag 240
cgatgggctg cgctcaagaa gctctgcac aatggttgcc ccgtgtcaga tcctgggatg 300
gaagcactac atgggggggtg ccccggttta gtcgacgtga atctgaagag atgtcgtgga 360
gtgtca 366

<210> 16386

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-H4

<400> 16386

ggtcgagcac gacgtccgcc tgaatgatgc gcgccatcag actcggacat gtaatatacg 60
agtcatacga cgtgtatatt ttctcctcct gtaaagccat atgtttttcc tagacaagcc 120
ttgtgtcatt cacatgggat gccgtttggc cttctgttaa agatcattgc acagaccgac 180
tccaggaaac aaaattttat ttttgcaata ttgcattgta tgataagtcc tcc 233

<210> 16387

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-H5

<400> 16387

cacgcataga cacggtagca gtagcgggcy ctcgaatctc accggcccca tctctaggct 60
ctagctccat cactcggaga agataagacc cagagtgtcg cctgggtccat ctccaatcca 120
gcaaggcggg cagacgagcc gagagtgaga caaccatggc gtctctggcc ctccgccccg 180
tcatcccggc caccaccgt tcatccagga ccctcacgat cgtcgttggc tcccgtcct 240
gccacgtgc cagactccac cgtggctttc gtcgcgggcg cctcatcacc tgcaaggcgg 300

agccgagcgg cggcaacagc accctcgagc tgggcgcagg ggccgcaggg ctgggatcga 360
gcgcgggtcgt ggcgtgggtcg ctctacacgc tgaacacgat ggggtgcggc ctgcc 415

<210> 16388

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-H6

<400> 16388

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccc cgcgtccgcg ggaggatttc 60
aatgggtcgat tctcctagag aggtgattgg tgctgttctg aagcatctgg gctcatcata 120
taacacagtt gatatggaaa tggacgtcaa tgggtggtaga gcagcagtcc taaacagctt 180
tacgcaacta cagaagcagg tccaactatt cgacagcatg aactatctga agtcgttttag 240
tgttggagat gtatgggtcc cagtgggttg gagcagcgcac gtgattcctg ctgcaaagcg 300
aatgttcaat gtcgcggtgg ttgttcccaa gtcagggagc agcctatggg ctga 354

<210> 16389

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-H9

<400> 16389

cccacgcgtc cgcccacgcg tccgaaaata ataacacgaa aatcattggt cgaaaatttc 60
atttagcggc gccaaaagga gaaatacaag tctcaggagc attactgata gtaaagacaa 120
cagacaacag acacctgaag aggccgacgc tgcgctaccc aaacaaacag gagacaccgc 180
agcaaacagt ccacgcaata acagcaacaa ccgcatacac aacttttagtg gcaagttatc 240
caggcaactgc aaaagcagac acgggatcgc atcattttctt ctt 283

<210> 16390

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A1

<400> 16390

ccaaggccgg gattgccctg aacgaccact tcatcaagct cgtctcttgg tacgacaacg 60
agtgggggcta cagcaaccgc gtcgtcgacc tgatccgcca catgttcaag acccagtaga 120
gagagatatt tctgcctccc tatcgtgggt cgtccccaat ggcctttggg cgcagaccat 180
ctttgctgct tgtctatgct gagaataaat gtgaacggtg cccctggacg ctggatccat 240
gctggttttg gacacgttgt ctttttgtgt ttaacttata tgetaccgtc ctgtaacgaa 300
ttcactaagt tctagttctt ttgtgctttg ttaagaatat aaacaatgag gtttcaattt 360

<210> 16391

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A10

<400> 16391

agaagatatg ggatcatgct gcaggggtgg ttatcattca ggaggctggg ggagtgggtca 60
cagatgctgg tggccgcccc ttggacttct caaggggtgt ttacctggaa ggtttggatc 120
gaggcataat agcttgttcc ggagcattgc ttcacaaag aattttaaat gctgttgatg 180
cgagctggaa ctcatcaaca ctatgaacca aacaataagg tcttaggaga gaatggcctc 240
atgttgggtca tagcatggta aattggaaaa ctgatttaag tattcattgt ggtgctgttg 300
tgactatggg gtaacaccgt aacagtgcag catataagat agtaatagat tgtc 354

<210> 16392

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A11

<400> 16392

cggacgcgtg gggggggcgc tctccgcgc gtcggcgctc ttcccgcgcc tcgcccggccg 60
cctcgtcacg ctccacgacg acagcatcgt gatacgggtc ggcggcgacg acgcccgcgt 120
cgagttctac cagcgggtgg cgccgtctct gtcgctcggc gacttcttgg tgcccggcgc 180
cgacgtgccg acccgtttga cgaacggcct gttcccatg gaccggacgg tgagctacgg 240

cggccacggc cgcccgtca cggcggtcca gtcaccgtg ctccgagacg gcgccgtgtt 300
 cgtcggcttc gtcgccaacc acgccgtcgt ggacggcacc tccttctggg acttcttcaa 360
 cacgttggcc gg 372

<210> 16393
 <211> 339
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-011-Q1-E1-A12
 <400> 16393

cgaggacgag gacgacgcct ccggcgggcg cggcgggcgc ggggacgagg acctgcaggg 60
 cgtgcggcg gagagctact gcctgtgggc gcccgggcg cagtcggcgg cgcccgcgtc 120
 cccgcggcg tgccggaaga gcggtccac gggctccgtc ctccgctggc gccgcatcag 180
 cgaccgcctc gtcggccgca gccacagcga cggcaaggag aagttcgtgt tcctcaccgc 240
 cgttccggat ccgcctcgtc ctagtaggag taacaaggaa gtggatgaag gaggcggcga 300
 cggcgaggca ggcagcctgg cgcacatgat gagatatta 339

<210> 16394
 <211> 206
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-011-Q1-E1-A3
 <400> 16394

caacgcgtca ggacgcctgc atccatcaga cgtccgacga atcgactact ccccttgccc 60
 cgagcacacg agaaccacgg cggccggcgg actttacggc ggtttcaaag ggaagcttgg 120
 agtctctgat tccccgcgc tgcagctcaa ccgcatccgt atcacactct catcatcgaa 180
 cgtcaagacc ttggggatag tttgtg 206

<210> 16395
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-011-Q1-E1-A4

<400> 16395

gaaccaaggt ttgcttcagt gtatgggagt cagccattct tctatagaaa ctgtgttgcg 60

gaccactctg aaatatagct tgggtctcaaa gctaactgga gctgggtggg gaggctgtgt 120

gttgactcta ataccgacgt tatcgtccaa tattgttctg gagaaagtca ccaggagct 180

cgaatctcat ggttatcgct gcttcaaagt tgaggttggg gggcgagggtc tocaagtatt 240

ccgaggataa cataacactc aacctatttc aaggagatgt tgtaccatac ttttagaaga 300

tggcttacct gcaactgaagc tgttttagatt ctcttcttga gttattccaa gatcatgata 360

ggatattctt ctctaagcc 380

<210> 16396

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A5

<400> 16396

ataatttgga aatgaagagg aaaagaaacg atggtacaaa aggtacagtt gttctaaata 60

gcggttctaa agtagaggga ttgttatgtc ttttgaaca ggccattcac agtggcaggg 120

cacttgttct gagtgaagat gagcttgctg attcagatct ggtctatgaa aagtctgttg 180

cttttacaaa gtcaattccg cgaagactgg tttttgagaa tactogaagg aagtccagt 240

ccaggagaaa tgtgccagac aatcatgcaa gaactaaaac acatcttgta gaaaataaaa 300

tgttgagcag tcctgttgaa aataaattta tcgttaatgg aggatctgca atgcagacaa 360

ttgaccatgg gcaagagttt 380

<210> 16397

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A6

<400> 16397

cacgccggtt acttttactg aggttttagc tctggtttat ttgatgtcca taggttttct 60

tcctttgctt gtgatctcaa cacatccatc actatgattc atttgtgtgt gatacatatt 120

gcaacttcag ttaaaatcca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaagaaaaa aaaaaacaaa aaaaaaaaaa aaaaaaaaaa agggggggcc 300
 ccccaaaggg ttcaaacttt atttaccggg aaagtaaagg ctaaaccctt tcaaaggggc 360
 cccaaaagtg aatttaaggg ggccgcgttt aaaagaccgc ggaacggg 408

<210> 16398
 <211> 166
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A7

<400> 16398

gtacgtagta ttgoggagat caatgcaatg caaactcatc accaccagat tgcattgcat 60
 tgtacgtagt attgoggaga tcaatcgaat cgtttggtc gtcgtcattc tatcgatgta 120
 catacattat atatgatgaa agacatatat aatcgtttct ttcagg 166

<210> 16399
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A8

<400> 16399

cccacgcgtc cgcccacgcg tccgagagga agaagaagaa cccagccaaa tcctcagtct 60
 tcaggctgct cacagctcgt gccgtccact ctcccccgag gcagtctctt gcgttcgctg 120
 ctcgacatgg cgctccaggc ggcgacgtcc tttctccctt cggccctctc cgcgcgcaag 180
 gaggggtcgg tgaaggactc ggcgtcgttc ttgggtgttc gtctcgcggc ggatggcctc 240
 aagctggaca ccaccgtctt gggcctacgc accgtgaggg tgagcaggtc ggcggacatc 300
 cgcgcgcaga cggcagcggg gtctctcccc tcagtgacct ccgcgtcgcc gtctggcaag 360
 aagaccct 368

<210> 16400
 <211> 354
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-011-Q1-E1-A9

<400> 16400

atcacgacag ttcttggttg aatgaacgct ttggaacaag tggagatttc attgttcatt 60

aagctgtact gcataactag cttcgtaatg cttttccct tctttctaca atgatctgct 120

gcagccttgc atgtgactt aagttcatct ggtgcagggt gccactccgg tggaccagta 180

tctgttaaaa gacctatgga gaggggagaa gcactgataa cccaacacc tttgctcttc 240

aagtagggga gcagatcaac aatggagggtg tcattgatcc cgtantgaca ataagataga 300

atcagctcca tcgagcctgg tgctacaagg tccaggacat aaaggtagat gctg 354

<210> 16401

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-B1

<400> 16401

gaagagggta tgaaaaatgc tttaaatgt ggagcagaaa atgattaaga agatgccgac 60

ggaaaaccgg ctttacattt tgcattgtgc tatgttgaag tgtgcataaa atctccttga 120

ggcggggggc acaattgatg ccctagataa gaacatgaac actgcgttgc acgatgctgc 180

tgggtatggt cggaaggaat gtgtggatca tctgttgaac tatggtgctg cagtcacgct 240

<210> 16402

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-B10

<400> 16402

cggacgcgtg ggtattggct atgtataatc ctatagcgtg tgaaaactga gcagtttttc 60

ctatggtgcc atcataggat ttgcttttac agttccaatt atggtgtagt tcaaaaattg 120

ctcgactaaa ctgcggtgta acagttaa at gggcagatgg aataatgtaa tcatactgtt 180

ccct 184

<210> 16403
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-B12

 <400> 16403

gaaaaaaaaa gtaacatgat actacaaatt ccagaaacag ctctgtataa tccacatagt 60
 acttctaatt ctacgatggc agcaaattta tttgaaattg gtcacacca tccttaaaac 120
 agttgagtca catgccgcac taccacagtt cgtgaacatt acacacaatc cctcgctca 180
 caaacagaag catttatctt tggcaatatg cggcggggag tcatggactg agaaacgtat 240
 cagcacata tacttcacgg cagaaccttt catgcttcag cagccttctg tgaagggtg 300
 tcttcacct tctgccccat ctttgacttc ttggcttcgt agtcttttac agca 354

<210> 16404
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-B2

 <400> 16404

gtcaccaact gggcgctcgt gtccatgaac cagcacacgc agtcgtgcat ggaccccaac 60
 gtcattggagg ccaaggtggt ggtcagctcc tgcggccacg acggggcctt cggcgccacc 120
 ggcgtcaaga ggctccagga catcggcatg atcagcgccg tgcccgggat gaaggcgctc 180
 gacatgaacg ccgcccagga cgagatcgtg cgcctcacgc gcgaggctgt gcccggcatt 240
 atcgtcaccg ggatggaggt cgcagagatc gacggcgccc cgaggatggg cccgacgttc 300
 ggcgccatga tgatctccg ccagaaggcg gcgcacctg cgtgaaggc actgggcagg 360
 cccaacgc 368

<210> 16405
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-B3

<400> 16405

cgaaggggct catcccgga cccgtcgcc cctacagctt cgacgaggcc acggggcgct 60
tcgagatcca cctcgccggc acctgctacg tccacttcgg ctcccacctc gtctactacg 120
agaggaccat aaccggcaag ctctccaagg gcgccatctc ggacctctcc ggcgtccagg 180
ccaagaagct ctctctctgg gtctacgtca cggggatggt cgcgcacccc gaccagggca 240
ccatcgagtt ccaggccggc ttcattctcg agtcgctatc ggccctcgatg tttgacgagg 300
tgccacactg cggttccagc gttggcgcg agctgcgcgg cgcggctggg gtgatcggcg 360
agcttgggct 370

<210> 16406

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-B4

<400> 16406

cccacgcgtc cggcaaccgg tccaacactt tcacgtcag gcgctcagct ctagcaatgg 60
ctgcctccac catggcgatc tcctccacgg cgatggccgg taccacctc aagggtgggct 120
ccttcggcga gggccgcac accatgcgca agaccgtggg caagcccaag gtggcgggct 180
ccggcagccc ctggtacggc cccgaccgg tcaagtacct cggcccttc tccggcgagc 240
ccccgagcta cctcaccggc gagttccccg gcgactacgg ctgggacacc gccgggctgt 300
ccgccgaccc cgagacctc gccagaacc gcgagctgga ggtgatccac tcccgtggg 360
ccatgctcgg cgcgctcggc tgcg 384

<210> 16407

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-B5

<400> 16407

atcaaactg cacatgagga ttctctgcaa ggttcaaagg agttctgcat agaaatacaa 60
ttgctgtcaa gattacatca tcgcaatttg gtttctcttg ttggctattg tgatgaagaa 120

gacgagcaga tgctgggtta tgagttcatg cccaatggta gcctacgtga tcattcttct 180
gctaagactg aaagacctct gagctttggg cagagggtcc atattgcact tggagctgcg 240
aaaggacttc tatatctaca taccgagggg aatcctccta tatttcatcg tgatgttaac 300
gccagcaata gtcttctaga ttccaagttt gtagcagagg tggtgactt tggcttttca 360
aagcttg 367

<210> 16408

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-B6

<400> 16408

gtccgacgcg ccactgtttg cgctgtgctt aaggtcctac tcaccggtct tctcgtcgac 60
agtgccagtc gtgtctcccg ctacgctgac actttttctc catcgctcga ctccatgctc 120
agcgctctca ccatcaccgc gcctctcttc gccggtgttc gccgggcata cgctcaacct 180
cgccaccgtg ggacttacct cgccttcaaa ccgtgttcgc cgcagcccag ccacgtctta 240
cctctacgct cagtaagaaa ccgctcgcgc tacagcctcg tcgcgtcacc attctgcagg 300
cactgagctc caccacctc ggtgaatgcc accgtcccct ttttcactgt gcaactcggga 360
tcagcttcct ggtgc 375

<210> 16409

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-B7

<400> 16409

gtctgggtccc ccaccttca gcgcgacgaa ggtaagatgt tcctgaggag gatcctgacc 60
ggcggggggcg gcctggcggc cctgagggcg gcgcgcgcgc tgaaggagac gacggggatc 120
gtgggccttg aggtggtgcc taacgcgcga gaggttcttg tagggctcta cgagcgcacg 180
ctcaaagaga tcaaggccgt ccccgaagac gagggttacc gcaaggccgt tgaatccttc 240
accggtcacc gcctccagat ctgccaggag gaggaggact ggaagcgcac cgaggaccga 300

atcggatgcg ggcaggtcga ggagctcatc gaggaggccg aggacgagct caagctcatc 360
gctaaaatga ttgaatggga tccatggggg gttcccgatg 400

<210> 16410

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-B8

<400> 16410

cggacgcgtg ggcggacgcg tgggcggacg cgtgggtttt tttttttttt tttttgcctt 60
tgggcctctt tctctcatc aatatataag acagatctcc tgtctgattg tttcaaaaaa 120
gtttaatcta aaaacttaag ttgatgaaaa aagtgggcaa tttccctgta ctgtgtactc 180
cagcatctac gageccggat tctagtaatt cagataaggg cgcgggcggt ggcgggtggcg 240
ctggcggcga gcctggacga gccgtagagg gtctctcga accggatgat ctcgttcttg 300
gacccgtagg ccacctgggt ccgctcgctg agctcgttga tcacctgtc cagcacccgac 360
tgcttgccgt cgtgctgta cccgccggcc ttctccatca aga 403

<210> 16411

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-B9

<400> 16411

cccacgcgtc cgcgtgctt ctctctccct ctgctcgctc tcccagccg aagcgccctt 60
cttccctggg tcccatggc gtgggtcgct cctccctgag ctgcacctg cgcgtctgc 120
tcttttccc acggcgcgcc ctctccctct tgtttctctg ctggcggccg ctctgctcg 180
ttcttctggc agcgcgcgc agccagcttc tctccagtc gcgcctgctg cccgctcggc 240
acctatctcc ctgcggccac tctcctttga cagcgccctg ctcccttcgc cgcgcgtcc 300
tcagctccgc ccggtgctcc tccatggggc tcggttctt cctcctaaag tcccttcgt 359

<210> 16412

<211> 405

<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-C10

<400> 16412

ccttcgcctt gcgagggggc ggaggggagg tggtagtggg aggggtataca ggagtgcctt 60
gcccattggag aaggcggggc aacaacgcca tggtatcggc ggcggcggca agaaggcgcc 120
cgcgctgggg ctgcagaagc agaactcgtg gtcgccggac atcgagcgcg acgaggcgtg 180
ggagcgccgg ggcaggggca tgcgccggcg gggcacggcg ctgcgccgcg cccgcagcgt 240
cacggacgac gacctcgac agctccggcg ctgcatcgac ctgggcttcg gcttcgagcc 300
ggcgcccgcc gccgctgcg cctgcgcctg cgccgggagg aaccgcctcc tggagacgct 360
gccgcgctcg aactcaaaa aaccgttcaa agggggggcg cgga g 405

<210> 16413
<211> 341
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-C11

<400> 16413

gcttctcctc cccctcttat caagtccctc tcgggttagg gttccttagg gttttgtgga 60
ggggcgatgg cggcggtga tgtggagtag cgttgcttcg tcggcggaact tgcctgggccc 120
accagcaacg agtcgctgga gaatgccttc gctcctacg gcgagatcct cgactccaag 180
gtcatcaccg accgggagac ggggaggtcc cgcggttcg gcttcgttac cttctcctcc 240
gagaactcca tgctcgacgc tatcgagaac atgaacggca aggagctcga cggccgtaac 300
atcaccttta accaggccca gtcccgtggc ggccgcggcg g 341

<210> 16414
<211> 379
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-C2

<400> 16414

cggacgcgtg ggcggacgcg tgggcggacg cgtgggagcg agaaaagaat ctctgaccgg 60

agtcctgccca ggctgataga atcctggcag ccatggatat actgctaggt tctgggagat 120
 tcttggcgcg acggactccc ctcatgctcg tccctcgctg ctctcgaggc tcccgggaca 180
 gaagcggcag cgacaaaggt gaaacctctg ctgactggga caaggcatgg gctaagttca 240
 agaagaaagg gaagaggacc ctcttttctg atttctcacc agacaagtat gtgacctgga 300
 acccacggcg cagcgagtat ccgttgtcag aagaggttga tccaatcaag agaactgaaa 360
 gatctaactt gatgctttg 379

<210> 16415

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-011-Q1-E1-C4

<400> 16415

ggaggtggta gacctcaagg gggagctttt cctgctccgc cttaagcgct cggcgcgcca 60
 ggagttcaag aacagcgagt tcagccgcat gcgcaagagg attgctcgta tgctaaccgt 120
 gaaaagagag cgggaaattg aacaaggaat caataaaaga ttgtctagga agcttgatag 180
 gaaatggaag cagagcattg tggtcagacc accaccatct ctaaggggga acaaagagga 240
 gtagaaagcc gcaaaaagag ggcaatgtgc aaaagtcgtt tcatgcgagt gttgcaggaa 300
 ggtcncttca tgatttcaac ccttattgctg ttgttatgta ttccatgttt acattttgct 360
 aagcattgct atctgaatct gaatt 385

<210> 16416

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-C5

<400> 16416

aaagaacttg ggctctatgc caatgtcaga ccttgcaaca gcctcccagg ttacaagacc 60
 agatacgatg atgttaacct tgtaacaatt cgtgaaaata ctgaaggaga atatagtgg 120
 cttgagcatc aggttgtgag aggtgttgtg gaaagtttga aaattattac acgccaagca 180

agtttgagag tggcagagta tgctttccat tatgccaagg ccaatggccg ggaaagagtc 240
tctgcgatcc acaaagccaa tattatgagg aagacagatg gtcttttctt caagtgttgc 300
cgtgaagtgt ctgaaaagta ccctgaaatt caatacgagg aggtcatcat tgacaattgc 360
tgtatgacgc ttgtgaagaa tcctgggtctt tttgacg 397

<210> 16417

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-C6

<400> 16417

cccacgcgtc cgcccacgcg tccgcacgcc cgcagcgcct cgcctcgggt gctctacctc 60
tatcccgcga cccgcgagat cggaatcgcg gcgccccgcc gccctcctcc aaaatggcac 120
cgtctctgct cgggggggttc accaagtcgt tggccatgac ggtgctctcc gagatcgggg 180
acaagacctt cttegcgcgc gcgattctgg ctatgcgcca tcccaggaaa ctcgatttgg 240
caggctgttt aactgcacta atagtcatga cagctctatc ggcttctcta gggtggggtg 300
caccaaactc gatttcacgt agatggactc atcatttgag cagtctactg ttctttctat 360
ttggcatttg gtcaatgtg 379

<210> 16418

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-C7

<400> 16418

agcaaaaaag ctgacagaga gtaaataaat gcaatcgatg tgtgaaacct atgcagctgt 60
gtcatatatt tgtaagggtg atgcagagtc gtcttcacag gcaactagaac tggttgggtc 120
tgcctataga acaatggact catttggttg tgtgcgagag aaaacctgta tcatttttgt 180
ttatggacta ttacttatga gacagcataa tccgcaggaa gcacggaacc gccttgcaag 240
tggtttgaaa atagcgcacc aacagttggg taacatccag ttagtttctc agtatttgac 300
aatactgggc acattggcgc ttcagctaca tgacgcagca caggctaaag agattctgaa 360

a

361

<210> 16419

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-C8

<400> 16419

ggatttatga agcgggttaca acaaatacta ggacggaaac atcagcgcaa ccttcatgca 60

atztatgtac tccacccaac gttgggtttg agaacagttg ttttggcaat gcaaagtgtt 120

gtagatggag aggtctggaa gaaagtgtga tatgtggata ggcttgtgca gctgttcaga 180

tatgtaccac gcgagcaact tacaattcct gactttgttt ttcagcacga tctggaggtg 240

aatgggtggga ggggcctaata ttagaccca agaacaagc acatatacca gaggacgtcc 300

agttgatata tgccagttct gaggcctgaa gtttgttagt tcttgcaactg taccattcta 360

atgttcactt gtaatttatt ccacgtgttc at 392

<210> 16420

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-C9

<400> 16420

cccacgcgtc cgccgcatgc ggcgtgaacg gaagaaggcg agagcggagg gcgccgctga 60

gcctcagttg gtactagctg ctgttgatga aaactctgag gtcagcgcg actgctgata 120

agtttcctgt gtgggtgtttc tctttttcac agcccttgtt acactttttc ttccttaatt 180

gtaagaccac atgatctata aaggcatat ttacatgtgt tgtttagata aatggatatg 240

ttctacttgt acgtt 255

<210> 16421

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-D1

<400> 16421

aaacaaacca gcagctgctt gcttcaaagg atgaagaaaa gaagatactt gtgacattaa 60
cacaagctct agattcccaa gccaaaggagt taaaatcctt gaccgagtca atcaatcgta 120
ccagggaacc cataaacatt accagagacg atagggtttt tcagcaccgc ccactggaag 180
accatgtccc tctgtttacg aagaatgggg caattaacag ttcattggaga tcttctcagc 240
aaactaacat gtatgggtgtg tcacatgggtg actttgggtc cgcaagggtc gcttcattcg 300
tgccagcacc tgctgaacct acagctggat ctttttcaag atcttatgcc gagacgtcca 360
ccgctgcaca acg 373

<210> 16422

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-D10

<400> 16422

gatcgatcga tggatcgatg attccatgta catatttgtt aggggggatgc tgcgggctagg 60
ctattagctg caggctatag agtttgaggg tgatatactt atcagtttgc tgcttgtaag 120
actgggttttg gttttgctat aatcgtgata tattccgatg tac 163

<210> 16423

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-D11

<400> 16423

cggacgcgtg ggcggacgcg tgggattcgt gattgggttc ttggaacacc tgagggtaca 60
tttgtttcca tgggtgtgta ctctgatggg tcatacgggtg ttccttcttg actcatttat 120
tcattcccag taacatgcag tgggtggtgaa tggaaaatcg ttcaaggcct cccgattgat 180
gagttctcaa ggaagaagat ggatgccact gcccaagagc tgacggagga gaagacgctt 240
gcttactcat gcctcgagta aattctacca caccagaga gcaattgcc ccccaatggt 300
ttgaataaaa aaagaaactc caactcgatt catagattct cactcaga 348

<210> 16424
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-D12

<400> 16424

```
caacgaagtg cgagcgaccc acgtccacac gacacgaacc accaccacca accagcagcc 60
gcaccacgca cccagcgcaa agcgatggcg tcgctcacca tgatggcgtc cttegcdgcc 120
gtggcggttg ccgcgccttc gcgcgcgggc accttcgccg tggtcaggtc cgccaaggtc 180
gaccgctgcc aggagcccg cagcctagca gcaaccgagg ccaggcccg cgcgcagga 240
cgccgcgcgc tcattgctgc ggctgctgc gggccgtgg cagccatcgg cggcgccggc 300
gccgcatgg cgggccccaa gaacgggacc cccgaggcga agaa 344
```

<210> 16425
 <211> 347
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB83-011-Q1-E1-D2

<400> 16425

```
cggacgcgtg ggcgcgagt agtgaacacc agccgtattg tcccgaactc tgacccctac 60
cgatcctcgc ctgctgcagc catggcgacc tccgcggcgc tctccaccgc cgccaatccc 120
accagctct accggtcccg cgcttcgctg ggcaagccgg tgaaggggct tggcctgagc 180
atgggccgcg agcgcgcccc ggcgagcatt gtgtgccagg cggcgagcag catctccgcc 240
gaccgctcc ccgacatgga gaagcggaag ctgatgaacc tctcctcct cggcgccatc 300
tcgttgccca ccgtcggcat ggtcgtcncc tacggcgct tcttcgt 347
```

<210> 16426
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-D3

<400> 16426

gtacatacat actaggcagc caggcagcca tggcgccac cgtgatgatg gcctcgtcgg 60
ccaccgccgt cgctccgttc caggggctca agtccaccgc cagcctcccc gtcgcccggc 120
gctcctccag aagcctcggc aacgtcagca acggcggaag gatccgggtgc atgcaggtgt 180
ggccgggcta cggcaacaag aagttcgaga cgctgtcgta cctgccgccg ctgtcgacgg 240
acgacctgct gaagcatgtg gactacctgc tgcgcaacgg ctggataccc tgctcgagt 300
tcagcaaggt cggcttcgtg tacgcgaga actccacctc cccgtgctac tacgacggcc 360
gcta 364

<210> 16427
<211> 160
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-D4
<400> 16427

cgccgtcttt ccacccccac caccacctc tccccggcct cgcacccatg gccacggctt 60
tgatggttgc agccaccacc tcctgctccc cgggccgcgc cgcgccgcgc ctgaagccgg 120
tggcctctc ctctccagc agcagcagca gcagctcggc 160

<210> 16428
<211> 383
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-D6
<400> 16428

cttgttcag tccgcacagc tttggtagcc ttgattgcct tcatgccgac gaacccaggt 60
ggggcattgg gctcactgga ttacaaacca gaagacagac gagcacttgc tataaaatca 120
cgtgaggtgc cgccgaaatt tggctcccca caacgtcaga aactaattga tgagatccat 180
gagcaaatgc tcagtaaggc tcctctatc ccccaaacgc tgccaaatgt gccaaacgag 240
gagctcgac ctgactcttg tgatgagcat gcagacaagg tagatgaagg tggcaacaca 300
tccaagtcca tgtcaggctc gtcgagtggc catcctgtgc ctgaagctga atcgctggct 360
gcagaaaaca cgggtgaagc atc 383

<210> 16429
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-D7

 <400> 16429

```

gagtgccctc tcgtgcaccc cggcgagaac gcgcgccgcc gcaacgcgcg ccgcttcacc 60
tacagctgcg tcccctgccc ggagttccgc aagggcagcg cctgccgcaa gggcgacaac 120
tgcaaatacg cgcacggcgt cttcgagtgc tggctccacc cggcgagta ccggacgcgc 180
ctctgcaacg acgaggtctg ctgcgcgcgc cgcattctgt tcttcgcgca caagcccgat 240
gagctgcgcg ccgtcaaccc gtccgcggtc tccgtcagga tgcattccac cgtttcgtcg 300
acgcgctcct cgcgcgcccc cggactcgac atgggcgcca tgcataaccc gggctggtgc 360
tcctcacggg ccagcacgct ca 382
  
```

<210> 16430
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-011-Q1-E1-D8

 <400> 16430

```

cccacgcgtc cgcggacgcg tggccatgat ggcgaggtt ctaataagta accttatgat 60
tggaatttgc agtgataggt tgtgtgtacg tgtctcccg tcttgaaaat tttatgatcc 120
cgaggatgag tataagcttt tccatgctca tatggtcctc atcgacgagg aggtacgcga 180
cctgcttact acatgaagca agctgcatac cagatcaaag aaattttaat atggggctgg 240
cagtgtcat gctcaaatat accctccact cactgacgtt ttcaaacctc tgataaagga 300
gggcaatgtc tacaatgtct cctacattca gatcaagana gctaattggga tgtacaagcc 360
tgttgacaac gatattcatga tcggtttcac aaaat 395
  
```

<210> 16431
 <211> 367
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-D9

<400> 16431

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgct ccatagattt cgccgcaagg 60
ggcaacggca caccaccaa ctgacctgac ccaaggaggga tccgcagatg aagatcattc 120
cggtcctttg cctggatgac aactatgcct acttgtacga atcagccgc accgcttggt 180
ttcactactc tttcagttgt tcgtttcaaa tcgttgaatt cttgattgct atttgtttct 240
tccgttcgaa gaatcgtgga cgagagcacc aagaaggcag cggccgttga ccctgtggaa 300
ccggagaagg ttctcaaggc ggccggcgag gtcggcgct acgtcgactg cgttctcacc 360
acccatc 367

<210> 16432

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-E1

<400> 16432

cggacgcgtg gggtcaactt caaatccttg cattttgaag ttttctgact cttgaggatg 60
gaggctattc ttgaaagacc gaagtacgag tgcttgctgt ttgatcttga tgacactctg 120
tacccttca gtgctggcat caatctagct tgtcgcaaaa acatacaaga ttacatgcgg 180
caccacctgc atattgaaga aagccaagtt gcagacatgt gcctggacct gtacaaggaa 240
tatggcacca caatggctgg ccttaaggca ttaggctacg aatttgacaa cgatgagttc 300
catgcaactg ttcattgttac cttgccatat cacaacctga ggccctgaccc tgttttgagg 360
accctcctac tttc 374

<210> 16433

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-E10

<400> 16433

cggacgcgtg ggcggacgcg tgggggcaaa ggaatcccaa tcaggcaagc aaaaggaaga 60
 accagctgct gcggccggag atgtcgtcgc agctgatcga ggagcaccgg tcgggcgcgg 120
 aggtgcacgt cgggcacgag ctgtcgcgag gcaagtcgcg cgagttcatg gtggagctgg 180
 gcctccccga cgggctcctc ccgctgcca gcctggacga ggtgggctac aaccggtcga 240
 cgggggttcgt gtggctgcgg caggccgccg gcctgaccca caccttcggc tccatcggca 300
 agcaggtgtg gtacgacagg gaggtgacgg cgttcgtgga gcccgggcgg atgcacggcc 360
 tcgccggg 368

<210> 16434

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-E11

<400> 16434

cccacgcgtc cgcacacgcg tgcgccacg cgtccgcca cgcgtccgca ccaccacccc 60
 gccggccaca ctcgtctttc tcacgagcca caggcacagg caggctctcg agtcagtc 120
 acccagcgca ggggatggcg tcgtcgttcg ccgtggcaac ggtcccgtcg ctggcggccc 180
 cggcggccaa gaagcgggcc ggccggcgtca cgtacgtgga gggcatgaac gcctacagcg 240
 gcctcaaggg gctcaacaag gtgaacatgc tcgggggtcg caagaccgcc gactactcct 300
 tcgccaaggt cgtggcgtcg ctcagccccg 330

<210> 16435

<211> 103

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-E2

<400> 16435

cgtccgcaca cgcgtacgt gacgcgtggg cggtcgcgtt ggcagacgcg ttgactgatg 60
 agtggggttg ggatgggaaa cagcacagat aaggaggatg cgt 103

<210> 16436

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-E4

<400> 16436

cccacgcgtc cgccaccatt catctacgaa tccatgggag gagattggag tggggccagc 60
taacggatcg gagtcggagt cttcttctgtg cttctcctgc tetgctggtg ccgctgccat 120
gggtttcccc agcacccccca acctgaagct ggagcctcgc cctcgcacgc ggaggctcct 180
gcgctgcgcc ctcagctctg agcctgtgca gcctcccatg actgtttcca tcaactggagc 240
cacaggtttc attggacgca gattggttca caagcttcta tcggatgata acaaggtttg 300
catcttaaca aggtctgcct ccaaggctgc gtcagttttt cctgcttcca cctatcctgg 360
actcacaat 369

<210> 16437

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-E5

<400> 16437

gtatccagat gatgcaacag atcataaaag agtcggctgg gggtgagtag ctgcagaagg 60
cttttgctga tcgctatgga cctcctgaga cagcaccagc ttctcttccc ctaactctgc 120
aatggatttt gacatcgaag aacattgcgg aagaagaatg gagtgaacat tcagactgtc 180
tttcagtaat gccagcagca gggcaggctc ctgctcttgt tccggtactc cgatctggtc 240
atggagctcc agtagggcaa ccatctcctt ctgcaggaga cacctctggt caaccagagt 300
gcaaggggtga gaagcttgac aagctaataa aggatggcct gttgcaactc attagtagtg 360
tggagggctt gcaattgcag tcaactcctg aaagttttc 399

<210> 16438

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-E7

<400> 16438

gcccgtgct cggtgggccc ctggcaggct tcgtgtacga gtcgctgttt ctggtgcaga 60
agatgcacga gccgctgctc aatggggaaa tctgaagacc atcaccacct tcatgcttgt 120
ttctgtaaaa caggctcattc tctgcaagca tggtagatac attggccaag gtaattagag 180
aggcttgctg taaagcagta ggattgctgg ctgtagaaat tgttgatggg cttttttggg 240
gggtttcctg ccaaggaatt ctttctttta tataatctca aaaaagtttt ttttttggtg 300
tgggctgggt tctatcaagg gtttgtaag tctattagtt taccatgtag cagaaaaact 360
agtgggacgt gaagtttttt ca 382

<210> 16439
<211> 392
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-E8
<400> 16439

agcagctgtt gcaaccggtt ccttcgagga gaacgtgaga aagaagcatg aggccccagg 60
tgctgctcgt cgcactggcc gtcttcgccg tctcgtagc tctgccactg ggcaaagcgc 120
acgaggagga ggaggaggaa gggcttgaac tcgaagccag catgaggcgg tggccgtgct 180
gcgaccagtg cggcatttgc accaggtcgc agccgccgat atgcgagtgc acggacacgt 240
cgacgaccgg ctgccagccg gcttgcaagg cgtgcgccct gtccatctcc gacggcctct 300
tcgtgtgcaa ggacaagatc gtcaacgtct gcaagcgccg ctgcacacgt cgtactgatg 360
atgatgatac gtgacttata atctaagtgg gc 392

<210> 16440
<211> 343
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-E9
<400> 16440

ggaaggagag accacgtacc gtctgcgagg aggacgacga agaaggagaa gaggctgatt 60
cgatcgagca gcatggcgcg gcggccacgg ccgtgtgccc acctgacggc cacgctcctt 120
ctgctcgccg tcgccggggc ggtcgccaga gccgccgacg gcgacgagaa gtgcggcagc 180

cðgtgcggga acccctgcgg cgagccgtgc gtgtacgcga gcccgccgcc gccgcgggtc 240
tactaccgcg cgccgcgcgc gcccggtgtaç tcgccaccac cggcgccgga gtactaccgc 300
ccggcgatcc cgaccccgac cacgccctac tgcacgcgcg cgc 343

<210> 16441

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-011-Q1-E1-F1

<400> 16441

ccgaaccgct gacgagcgct ggccttcta cgaggacgag gtcgaggagc tccgggacat 60
cgtgctcgtg cgggagcgtg aggtgcgcgc gctgcgcaag gaggttgacg cctaccgacg 120
cctgctcggg tttagcgcta ccgaggagga cgaggaggag gatgacgagc aggagatggg 180
cacgcgcgat agtttcccca tgtacgaagg agagcccagc tcgtccaaat cggtcgatgc 240
gaatcggatg caacattttg ggaatgattc tgggttcagc ttcaagacgc catcaccgcg 300
tgaacaacca acggtgccgc ctcttactgc anggcaaata aatgtgggaa gcgatgattg 360
tggtgctggt c 371

<210> 16442

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F10

<400> 16442

cccacgcgtc cgcggacgcg tgggcgctcg gtcactcctc attcctcagt cctcactaac 60
aatccgcacc aggactcatc agggccgcgc gcgcgcgcgc gcagcgatgc ggtgggacgc 120
agccgaggcc gagggggccc tcgagcggat ctgggacctc cacgaccgcc tcagcgatgc 180
catcctcgcc gtctcccgcg cgcacctcct cctgcccgtc ccccgcccc ctcccgcgcc 240
gtccgcgccc tcgcgcaaag gggcccaccg cgtcggcgtc ggcaggaacg ggtgcgtctt 300
cgtcaagggc ggcgcgcgcg gcggcgagg gcaagcgctg accgcgcgcg cggaagccct 360
ggccgagggc aagagcctaa aagccaattc ctccggcct caaggacttc gaggaccacc 420

tcgag

425

<210> 16443

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F11

<400> 16443

gacgcgtggg cggcaccgac gacggtgccg gcgcaaagag cggcgggtggg gccgcgccag 60
agatgtccac ggcggagcgg caggagatgc agatgaagaa gagcaagctt ctcaacatgc 120
ttgacgaggt ggagcagcgg taccggcagt accacgggca gatgcaggcg gtgtcgtcgt 180
cgttcgagggc ggcggcgggg gccgggtcgg cgcggacgta cacggcgctg gcgctgcgca 240
ccatctcgcg gcagttccgg tgtctgcggg acgcgatcgc gtcgcagggtg cgcgcggcga 300
gccggggcgct gggccaggac gcggacgccg ccg 333

<210> 16444

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F12

<400> 16444

agcttctgtt gttaaagtct ctgagctgcc acaggtttct ctgagagaga aggcctcaaa 60
ggtcttgaat atgctgattg gggaagagcc tactggaacc acagcaacaa aatctgcaat 120
ggccacacct gttcagatgc ctgatttgat cgatacaggt gatcaagatg gtctggcaac 180
aagttctgga caggaaagca atggacaaaa aaatactggg aaagcatatg tttcttcagt 240
tgatgatttg cttggtggtg aacctattgc tgatacaagt gtcactgctg atagcaatgg 300
aagcgatcca tttgcagatg tatcgttcca tgaggtagag gctaaggaga ctaatgatct 360
cttctcagga ttgatagtag aagaaaaa 388

<210> 16445

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F2

<400> 16445

gttttagcctc caagcagggg cgccgcgcgg ggtattctgt ccgtcgttga gggtagagag 60
tcacttgacac cgggggagcg gagatgaagc cggttgtggg gatcgtgggtg tcgaacaaga 120
tgcagaagtc ggtggtggtt gcagtggacc gtctcttcca caacaaggta tacaaccgct 180
acgtcaagcg cacctccaag ttcattggcac acgacgatga cgactcctgc aacattggcg 240
accgggtag gctggatcct tctaggccct tgagcagaca caagcactgg gttgttgctg 300
aaattctccg cagagctaag gtgtacgttc caccagctgc aacagcgtcc agtgaacgtg 360
gtagcaaatc tcaacaa 377

<210> 16446

<211> 359

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-011-Q1-E1-F3

<400> 16446

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggcg gacgcgtggg 60
cggacgcgtg ggagagacca taactctgag cagaggccag aagagcggtc taatcagaga 120
gctctgaagt ctggtcttgc ttaccttgtt cgtagtggtg ggccgaagga tacaggtgca 180
gcaacagaga tcaggaatct gaccagacgg aagagaagga tccangaggt tggagggctc 240
ccaactcctg tttacacgtc ggatacggat gcttggagggc aagttagcgc tgtagttctt 300
tttggaacga agggacagaa aaggccgaga ggagatgaac cgtaggagtt gccgccttt 359

<210> 16447

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F4

<400> 16447

gccgtgtaat aatggggaac gtagaaatag ttcaccctgg atctaagcag tgccaaccta 60

gtaataagta ttttgatagt ggagtagacg accttaaaaa tccacggcat tacgttgtgt 120
 gggatatgaa tctgaatagt catatctatt ctgagtttgt agtcactgtc aaattgcctt 180
 ctaaaaccaa agattccttt gtatcgcaag aaaactgtca gaattcgtct gatctatcac 240
 tgggtgttgaa ctctagttca cctgattgta tttcacagaa gagttccact gttggagcag 300
 caagagtgca gtaattcaga ttctgtgatt tgactcaata attgacatga ttgcattatt 360
 gagattataa cttggagctg 380

<210> 16448

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F6

<400> 16448

cccacgcgtc cgcgacgcg tgggcggacg cgtgggcgga cgcggtgggcc ccgacgacgg 60
 cgcgacacggg ctgtaccggc tgtggacgtg ccaggactgc gcgggacgacc tgggcgagtt 120
 tcccggcgac gaggtgccg cggccgacgg cccttcggcc gcgcgcgcgg cccgctcgcc 180
 gacgacgctg tcgcacgtcg tgttcggcat cggcgcgtcg gcgcggacgt gggaccagcg 240
 ccgcgggtac gcggagctgt ggtggcgccc cgccagatg cgcgggcacg tctggctcga 300
 ggagcagccc gcgagcccg ggcccgcggc gacgtgcccg ccgtaccgcg tctcggcgga 360
 cgcgccccgg ttcggggacc gc 382

<210> 16449

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F7

<400> 16449

gcgcgtcttc tctctggttc ccgtgtgcag gagggccgtg cagcctcgg cgtacgacaa 60
 gaacctggag gaccaggtgc gcccggcggtt cgtgccggac gatgtgatcg gcagcgccgg 120
 gagccccgac aagtactgga gccccaccc caagaccggc gtgttcggcc cggcggcggt 180
 ggaccccaag ctggcagctg gtggcgcgcc ggacgccggc gcggatgctg caggaggcac 240

ggtgctggac cagaaggtgt ggttccgccc gctcgaggac gtcgagaagc cgtccccccg 300
cgcgtagagcc gcgcggcgct gctagcccag cccacactgc tgctcgctca taaaaagggc 360
ggcgggagag cctggcaggc actct 385

<210> 16450

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F8

<400> 16450

cccacacgca cggccgcagg cagcagcacc atgtggtcgg cagcaacggc ggcggcggcg 60
cgcgcggtgt ccgtgtcccc agtcccgcg ccttcgctcc tcagcggccg gcgeggcggg 120
tcgcggggcg gccgggggtc ggtgtcggtg cgcagcacgg tgtgggactt cgtgggcggc 180
gacctggtgc ggccggacct gggcaagtgg ctggacgacg tggagaagca caaggcgctg 240
gccatctacc cgccgcacga gggcggctac gagggccgct acctgaaccg cctccgttac 300
cagggctact acttctctga cctctccgcg cgggggctcg gcgaccgga gaccacgctc 360
accaaggtcc accccgtctg cccgcct 387

<210> 16451

<211> 345

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-011-Q1-E1-F9

<400> 16451

cgcatctgct tccagagccc cccgcgcggc ctgcgccctc ctctcggtcc tgccgtccgt 60
cgaggtaaaa ggacagcatg gtgaggggtca gcgtgctcaa tgatgctctc aagtccatgt 120
acaatgctga aaagataggg aaacgtcagg tcatgatcag gccgtcatcc aaggtgatca 180
tcaagttcct gacggtcatg cagcgccatg gttacattgg cgagttcgag tacgtggatg 240
accacagagc tgggaagatc gtggtggagc tgaatggaag actgaataaa tgtggtgtta 300
ttagccacg ttttgatgta ngtgttaagg agatcgaggg atgga 345

<210> 16452
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-G1

 <400> 16452

 ggctaaagcc cgtaggaatt tgcgtattgg taacaagacg atatgatggg gtacctgttg 60
 attatgtcag gatctattga cagcttt 87

<210> 16453
 <211> 174
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-G10

 <400> 16453

 gggcatatac atacttgtat gcgtgtaccg tagacatacg tttcgtata tgtactgcag 60
 gagatgtacc agtattttgtg aagaaggag catgggctca gagattgtac cagtagtgta 120
 cgtatttgca tgcattgctt ggtccttggt gacattatca atgaaatatg ctgt 174

<210> 16454
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-G12

 <400> 16454

 aggagcttca ctgacacttg cttttgctga gaatggagac ctgtttgctg atgtctggta 60
 gattggggtg aaatgcttgg agggatgggtg ctcggctatg ggagttgaag tccgtgagtt 120
 gctctggaag ctgctcggtg tctgggggta caactcgatg tcatctgcac ttgctcggct 180
 tgggtggataa ggaggcttgt actgcgaatt cccgcaagac cgagggtacc tatgggtgtcc 240
 ggtatcagca cttatgacac tgtttctgct actgaggcta tcaactgtctg cctcatactg 300
 gttgcgggta ttgatcggtt tcagcacgga cgaagaggct ctggctttcg ctgctgcttt 360
 c 361

<210> 16455
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-G2

 <400> 16455

 cccacgcgtc cggttccccg accacaccgt tcctccgagc ccaggatcag ccccgcgcca 60
 ggaggaagtt tgttctttta acaatatgtc gagggaggag aatgtttaca tggccaagtt 120
 ggctgagcag gctgaaaggt atgaggagat ggttgagtat atggagaagg tggctaagac 180
 tgtagatgtg gaagagctca ctgttgagga gcgtaacott ctgtctgttg catacaagaa 240
 tgtgattggg gctctccgcg cttcatggcg cattgtttct tccattgaac aaaaggagga 300
 gtcccgttaag aacgaagagc atgtgaacct tatic 334

<210> 16456
 <211> 89
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-G3

 <400> 16456

 gctgtatatg catgctagta tgcattgtcc ctctcttgtc aatgcttgta atcgaacttt 60
 attatgaaaa ccaaaacgag aatccaacc 89

<210> 16457
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-011-Q1-E1-G5

 <400> 16457

 gccaaaggtg tcggtgtggc tgtgtcggcc acggccagct agagctgtga cctgggagtg 60
 ggaggggttg tgcctatagg atcgatcatg acaccatcga ggagtgcggc gacggaggcc 120
 gccacctgct gctgggcttc ggcaccagga tactcgttgg cgtgccggac aactccccgc 180
 gctgctccga gctgctgtcg tgggcgatcg gcgccgtcgc caageccagc gactccgtcg 240

tgcgcgtgca cgtcctcgga gggaggggga ggaagcggag gctgcagaag gccaacgcct 300
 tegtcatcta catgctcggc gaattcgtca aagcttgtga tggcaancag attaatttgg 360
 gggccaacgt gatatgc 377

<210> 16458

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-G6

<400> 16458

ctttatttcc cttgcccttt tccagagcac ctccgccgtc ggccatgggt caagcctggg 60
 gtaatctcca agataggctc caagggcggc ggtggaagga gcaccagggtg aggaagatca 120
 ccgacaaggt gttcgaccgc ctcacggagg acgcccagaa gcgcgacaag gaggccctca 180
 gattcgagga ggtctacatc gccgtcctct gcgtctacaa tgacatcaac aagtacttgc 240
 cggggccgca ccacgacccc ccgtccaagg agaagctcag ggccatgatg gaggagtacg 300
 acgtgaacct ggacgggctc ctggaccgag aggagtctgc ggagttcatc cggaagctga 360
 ccgcagactc gctgtgctcg a 381

<210> 16459

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-G7

<400> 16459

ccacgataag ccctaataccc agcgccacct cgatggcgac cacctctttc ttccatccgc 60
 tcgccgcccc gatggaccgc ggtggcggtt gttttcgctg ctgcccgttc agcctaacca 120
 tccccgcccc tacagcgccc cggcgaccgg cgccgcttct cgtcgtccgc gctaagcgcg 180
 ccggcagcca ggcccttget gccgcccct cgcgtcagcc cgcgaaatccc agcgcgggtcc 240
 cgaagcggga cgtggaagaa gaggaggagg aggtcgagga ggagatgccc tggatccagg 300
 acaaggcgct ggacctcgtg gagttcactg gcaccgtcac acaggccatc ccagggcccc 360
 gtgt 364

<210> 16460

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-G8

<400> 16460

gctcgaggaa tggcgtcggt gcaggtctcc ggcgcggggg tcggtgccgc ggccttctct 60

gtgaagggga aggccctcac cggcgcgctc cggtctcgct ctacgttgac cttcggcgag 120

gtctgccccg cgcgggcggc gttccgcggc ctcgctcgta gggccgctac cgtcgtcgcc 180

cccaagtata caacacttaa gcccttggct gatagagtgc ttgtaaagat taactcttcc 240

gagaagaaga caactggtgg aatcttgctc octacgactg ctcagtcag acctcaagg 300

ggcgaggtag ttgctgttgg agaaggaagg ataattgggg ataagaaagt tgatgtcagc 360

at 362

<210> 16461

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-G9

<400> 16461

gcctttcgat ccttaatgag gacagtgggt ggagaccagc tattactggt aagcagattc 60

tcgtcgggat ccaggacttg ctagatcagc caaatcctgc tgaccctgct caaacagacg 120

gatatcacct ttttatccag gateccacag aatacaagag gcgcgttaga ctgcaggcga 180

agcagtatcc tgcattgggtc tgagagcttc gccctactag ggatccatgc tgcacatccg 240

catagttggt gctagtgtct tgaatgaaag accaaatgta acatggtgct tggagaagta 300

actatcgcca ttgtggactg tgtgtctttt aacagcctta ttaactgttt ggagtgtgtg 360

<210> 16462

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H1

<400> 16462

cacccacgcc tccgaagaga cttgtgtgat tgctttgggtt acaacgctca cggaatccag 60

ggcagacctg ggagttaatg atcacgtggg cgtcagtaca tgcgacagcg tgggatgcc 120

taagtatgca ggcggtgtca tcagtttcac ttctcacacc atgggacacg tgactgggtca 180

ttgttat 187

<210> 16463

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H10

<400> 16463

attgcgacgt ggacgatatc agcgacgtgt tagctcacgt cagagatgga taacatgttg 60

tagataatgg aaaccaagtt ccggatttgt cccc 94

<210> 16464

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H11

<400> 16464

atTTTTtattt tttttttttt tttttttttt tttttttttt cttttttttt ttttttggtta 60

tttttttggtt tttttttttt tttttttttt ttttattttt ttttttagacg cccaagcaa 120

acaagccccg aaaccgtccc caaagacaca caagggaaag ttacaggtaa aattacatta 180

aacaaagggtt ccaacaactt tcttaaagta caggaaagct tccatttcca aaatggccaa 240

aaacccccaa caaagcaagc acctccgaca ccaaaagcca tccatgtttc ccaagttgtt 300

aaccaagcgc ccaacacggc aaaa 324

<210> 16465

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H12

<400> 16465

agctccagcc ggtgtacctc ctgaatccga ccggtgccctc agcggctcgt cgttggttcgg 60

gatgttcgct ttgaaggaac gcccgaagtg gatgaacatc acctcgcttg acgagctcaa 120

gacaaaagtg gggcacgtca tcgtgatgat tctacttgtg aagatgttcg agaagagcaa 180

gatggtgacg atagccacgg ggctggacct cctcagctac tcgatctgca tcttcttgtc 240

gtcagcttct ctctacatcc tgcacaatct tcacaagggc gaccatgagg agtgacgaga 300

gtgaaatgcc gaatttgtag cctattcgag agagagtiga cggctcttgc caataatcaa 360

tactgg 366

<210> 16466

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H2

<400> 16466

cccacgcgtc cgcccacgcg tccgcgcaag cgcaacagaa gcatactacg ccgctacgcg 60

ctggggcggtg ccgcacagct atagatagct agcagtgttg catagaaatg gacagcgcca 120

gcagcctcgt ggacgacacc agcggcagcg gcggcggcgc gtgcacggac aagctaaggg 180

ctttggccgc cgccgcccgc tccgcctcgg ggccaccgcc ggagcgcgatg ggcagcggag 240

ccagcgcggt cgtggacgcg gccgagccgg gcgccgaggc ggactccggc tccgcgccgg 300

cctccgtcgc cgccgtcgcg gcgggctggt gcgggaagct gccgtcgtcc aggtaca 357

<210> 16467

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-011-Q1-E1-H3

<400> 16467

gggaaaaatt gatcaaacac gtatgtggaa ggtgggtgaa agggctcgtt caaccaggcc 60

acaaggatgat cttggcccac tgcacccctt cactgctgga gtgtatgttg cactaatgat 120

ggctcagatt gaggtcctta ngaagaagg ccaactcttac tcagagataa ttaatgagag 180

cctgatcgag tccgtggact cgttgaaccc gtatcatgcat gctcgcgggtg tggccttcat 240
 ggatcgataac tgctccacaa ctgctcgttt gggatctang aagtggggcac cacgcttcga 300
 ttacatcttg acccaacagg cgtttgtgac tgttgacaag aaagcaccga tcaaccaaga 360
 cctcatcagc aac 373

<210> 16468

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H4

<400> 16468

ccaggcctcc ggatcgatcgc gctgctgccg gcggggagga cgtccgggtc ggacggcgac 60
 tcggcgggcg acacgcgccg gcgcgagaag cggcggtgt cgaaccgcga gtcggcgcg 120
 cggatcgcggc tgcggaagca gcagcacctg gacgagctgg cccaggaggc ggcgctcctg 180
 caggccgaga acgcgcgcgt ggcgccccgc gccgcgcagc tcgcgctcga gaacgcgcgc 240
 gtcgagcagg agaacgcgt gctccgcgt cgcgcgcgc aactcggcg cgcctccgc 300
 tccgtcaacg aggtgctccg cgtcgtcgag gagttcagcg gcgctgccat ggacatccag 360
 gaggaggtgc cgccggcgga cgaccgctg ctccgc 396

<210> 16469

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H5

<400> 16469

ctggaaaaca cagcacgca gaccccccc aaccgctctc agtctctccc tccctgtctc 60
 tctgttcaat ctctcggtc gccatggacg ctccgagcaa ctgcacgcgt cctgcgcgcg 120
 ccaagtgacc gaacaagctg agctctgctg ctacagttgc ttgccctgt gccaaactgg 180
 caggaggtag gtagcttata gcatagcagc tagagctaag ctgtggtgcg tagcggcagc 240
 tagagctagc ttgtgcacgc gcaggtgctg gctagctagc tagcttgta gctgtgtact 300
 agctgtgtag cagcagcagc agcacagtag cagtagtcgg tgataaaagg aatttctttg 360

gggacatgt

369

<210> 16470

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H8

<400> 16470

ccgaaaccag aggcgggtag ggttctagct gcaggcgacg gccatggcgg cctccgcccgc 60

cgccccggcg ctgcttcgac gcctctttctg cagctctatt ccagcctcct cctccgtact 120

gcgcgctacc ttttgcctct ccgcccggctt cggtctgtct tctccgtcct ccatattcgg 180

cgacgccacc gaggtcgcca acgtgccacc gctcaccacg cccaacctct tcgtcagtgg 240

cctttcaagg ttaacgacag atgagaagct ccagggtgcc tttgctcctt tcgggaggct 300

ccttgaagca aaagtgggta cggatagagt ttctgggagg tcaaagggtt tcggtttcgt 360

gagatat 367

<210> 16471

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H9

<400> 16471

gccgcccgtca ccgccccttc cttcgccgca ccagcgccag cccgcgccgt ggtcagaagg 60

aggtccttca ccgtgcgcgc ctctctccgc aaggccaccg gcaaccgcgc cgtggcaatg 120

gctgccagcg ccctgcttgc cggcgggtgcc atggcccagg aggtgctgct gggcgcatgc 180

gacggcgggc tcgtcttcga gccagccag ttcaccgtca aggcgggcga caccatcaca 240

ttcaagaaca acgcccggctt cccgcacaac gtcgtcttcg acgaagacga ggtgccgagc 300

ggcgctcgacg ccaccaagat ctcgcaagag gagtacctca acgcgccagg cgagacct 358

<210> 16472

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A1

<400> 16472

accacgcgtc cgcttcagga acatcaaaac cattgctgaa ggcgctctct ctgaaaccac 60
tcgagtgcag ccatatgccg tgactttcgt tacgcacacg gccgataagc tgcacgtggg 120
ccgcgacatc gtcggttctt cagtggcatt ccagtcactg catctcgacg tgcct 175

<210> 16473

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A10

<400> 16473

cagaaactgg agaaggagcg ggaggagaag cagaagatgg ccgggtgcat ccagaccctg 60
caagaggagc tcagccacgc catggaggaa cttaagaggc tcaaagcgcg ggacgacgag 120
gaggccgccc gaaccaaggt catcgacctg gagatcgacg agggcctcta cttcaccgag 180
gccgccgaga agcaaattggc gccgccgcca cagggcgctg ccggcggagc aggcgagctc 240
cagaagaaga ggtacgtgac gttcgctgac ccgcgcacgg tcgccaccac cgccgccgcc 300
gcgtgccggg cgccaccgtt gccggacgtg gtgatggagg tgcaccgcgc gccgccccac 360
cagctc 366

<210> 16474

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A11

<400> 16474

cccacgcgtc cgcccacgcg tccggacgac gtaaacgcct tgctgaacaa aggcattggcc 60
ggggacagcc gcttctcat gccaatgtg ctgagggagt gcggcgagac gtttcgtggg 120
atcgactcgt tggttgacgt cggtggtggc catggtggcg ccgccgccac catcgccgcc 180
gccttcccc acctcaagtg cagcgtgctt gacctccgc acgttgctgc cggtgctccg 240
tctgatggca acgtgcagtt cgtcgcaggc aatatgtttg agagtattcc acctgcaacc 300

gctgttttcc tcaagaaaac tctacatgac tggggtgacg atgagtgtgt caagatattg 360
aagaattgca agcaaagcat atctc 385

<210> 16475
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A12

<400> 16475

tcgtgggtcg acacaagcct ctacactgag tcctagatgc ttgaacactg caagctgaag 60
catagctcac tactcagcgg aagtaaacia aacgtgagac gaaaccagtg gaggacaggg 120
tgtccgctca tctcgcgtg aggtaggact aggatgtgtg cgatttgttt ttttaattat 180
gcaatccatg ttgggataaa aaatgtagca gggattagtt ttataaagaa aaaaaattaa 240
attactcccc ttgcatatgt atgatgtcca tatgcccttc taaagtataa gtgttggtta 300
gttcatttta tccctctatc tatttgaatt ggtttttagt ttaagttttc tggttagtag 360
ttgatgccac aacttaacct aggaaatata 390

<210> 16476
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A2

<400> 16476

aggacgcgtg ggtgcagtct cgccgctccc ctccctcccc cgcaggaatc cgaatcagta 60
agtcgggcga cctaggtctc tcggcttgct cgcagccgcg cggtcagtaa tggcgcagga 120
tgatccggtt gtttctgctc agtggctgca cgagcaccta gggatgctg atgttaaggt 180
aaaaaaaaa catctagttt gcggtgtcat attcacttca gagacacttc agtaatgctt 240
ccttcacoga agaagaaagt tcagagatat acttcttcta tccctgcgt tactggtttt 300
ggatgcttcc tggtagatgc cggtagagaa cagggatcca tggaaagaat atcaggtggc 360
acacatcccc ggtgcgtat tcttcgactt agatggcata gttgatcgga caactgattt 420
accgcac 427

<210> 16477
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-A3

 <400> 16477

```

cccacgcgtc cgctgattca gcgctaggcg tggatggagc ggcgctgttc atcttcacca 60
acgcctgcaa gcacgcggtg tgggtgggcg cgctccacgg cgccagctcg ccgccgctcg 120
cgcggtcggg cttctacctg gcgccgtccg ccacgtccag catggacgcg ccgtcgtcgg 180
ggacatggtc cggcacgttg tgggcgcgca cgggctgcgt ggccgacccc gccaccgggc 240
gcttctcctg cgccacggcc gactgcggca cgggcgacgt cgcggtgcaa ggccgccggc 300
cggcgcctcc ggtctcgctc gtcgaggtca cgctcgccgc gccgggcagc cgcaggccgg 360
acttctacga cg 372
  
```

<210> 16478
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-A4

 <400> 16478

```

aaacagtatc tgaatcttta gttgcagctt gcagtgtga tactgtact catacagttc 60
atgggcagta gtagtactaa atacacatgg gatcgacaca gatcaacgtt ttcgtttacg 120
tcgtgatggg tggggtcggt ccattgcttc gaggggaagag ccgcaccggt gggtcagtcc 180
cggcgcgcgg gctcgtgcct ggtggagacg gagacggcgg tggacatcac gagcatgtgg 240
ctcagcgtcg caaccacccg cttgtagacg ccgtagtcgt ccgtgcggag ctccaccttg 300
cccttgttcg tggagacctc cactgggtat gtcgcgccct cgtggggggt cggcttctcc 360
ggggagcaag gctgcacgtc gtggatcacg ctttcttttg cgt 403
  
```

<210> 16479
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A5

<400> 16479

cccacgcgtc cggtgggtgct tgcggcagct ccggagtcca ggcagcacgc tagtcggggg 60
gcgcggggga ggagatatgg atcggtcgta tctccccgtg gcggcggcgg ccgtcgcctt 120
ggtcctcgtg tgctgctccg gcctctgccg cggcgagcgg ctcggggcga gggagtgcga 180
ggacctgggg ttcaccggcc tcgctctctg ctccgactgc aacgcgctct ccgagttcgt 240
caaggaccaa gagctggtgg aggattgcc aatatgttgc accgaggatt cagatgattc 300
tatcagcaag ctcacattt 319

<210> 16480

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-012-Q1-E1-A7

<400> 16480

caccaggcgg tttccgccct catggactcc gccagctact ggacggcggt ctgggtgttc 60
gccggctgca acctgacgct cctgctgctg gcgtcgctcca tcacggcggt cttgtcgccg 120
gcggccggcg ggtcgggaat cccggaggtc aaggcctacc tcaacggcgt cgacgcgcc 180
aacatcttct cgctgcggac cctcgtgtgc aaggtgcgcc gtgtgtgttc cgttcccatc 240
ctcctgcctt cgccgtcgct ttcgcttgct gcagtgcaca tgctcncctc agcatttctt 300
gatgccagct gcgcaaatgg gttaacatcc acactaatat aatgtac 347

<210> 16481

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A8

<400> 16481

ggaagaactt tttgcctatg atataaactg ggtgatatat gacaagaatg agttgcacga 60
gagaatgagg ccttggattt caaaaaagat tattgaattt cttggcgagg aggaatcaac 120

tttgggtggac tatattgttt cctgcaccaa agaccacgtt caggcagaaa agatgctaga 180
gctcctacag tcgatttttg atgttgaggc tgagatgttt gttctcaaga tgtggcggat 240
gctgatattt gagattaaga aagtcgaatc tggactatca ggaagagcaa agtaatgaag 300
ctaagcctgt taccttgtat gacctttgat ttacatcact caactgtggt catgcttgta 360
aggtcatact gtactaaaca agcatcagaa accatTTTTA atgatgctga ttggacggtt 420
ttgattctac 430

<210> 16482

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A9

<400> 16482

gggccgagac acgcgtcagt ctgttttctt tatgtcgatc atatgggata gctcccaacg 60
cttttgttgc agatctttgc tactcgataa tgctacttca atatcatgac atcaggaagg 120
acatagctgc tgccagtcgt ccgatgatct gcacgtcaca tgtccaaact tcaagccgtc 180
tcgcagcatt aaatatcaaa cctaggggtgc cttggggccag ttcaaccaca tgttcgtagc 240
ttcactctaa cgatcagcgt cccctgcacg acaccggcca aggcatccac ggtggtggag 300
ctgccaccgc agttgcagat ccggtatgcy ccgtcgacgt ccgccgggggt tagcggttaag 360
caacacggga agggcaaatt 380

<210> 16483

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-012-Q1-E1-B1

<400> 16483

gcaggcgccg cgctgctcgg cgtcggcgtc ggccggcgcca gcgcgcagca gggcgtgtgg 60
agcatcatca ctcgctccat gttccagagc atgctgagcc accgcggcga cagcgggtgc 120
caggcgccct tctacaccta cgacgccttc atcgaggccg ccagcaagtt ccccggtctc 180
ggcaccaccg gcgacgagca gacgcgcagg cgggagctcg ccgccttctt cggccagacg 240

tcncacgaaa ccaccggtgg atggggcgact gctccgggtg gaccgtttgc ctgggggatac 300
 tgccgggtga aggaacagaa ccgacgggac ccacctacta tggacgaagg accatacagc 360
 taactcatga gtacanctac aggctcgccg ggcagggcgt gaacctgaac 410

<210> 16484

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-B10

<400> 16484

cccacgcgtc cgactttcca aattgctatg gctggaaggt cattctcact tctgcagagg 60
 attggagctt ttgtgaggaa tggataaaag cttttggcag tgggaactac tgcttctttg 120
 attggcacta gtgtcacgaa tgcagcgctc aaagcaaaga gggctgttga taaggacctt 180
 gaggacgaag tcatggaaat tccagtcgtc tcaactagtg ttgcctatgg tgtatacatg 240
 tccatttcta gtaacctcag gtatcagctt ctggctgggtg tgatcgagca gaggatgctg 300
 gagccgttgc tgcataacca gaagctactg ctgagtgcaa tgtgcttcat cgttcgtacg 360
 ggc 363

<210> 16485

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-B11

<400> 16485

agaccgttgg ctaaagcaaa cagcttccgc aacatgctgg agatcaggtc gacagccttc 60
 gcacaatgga atggacgcga gattgaggtt tcatcgcca acggcggatc gtctactctg 120
 catctgtgca acatcagcct gccagttacg gggtcacata aggaccacca ctggggcgggc 180
 ccagcattca ttatgtcaca cccgagtttc aggacatcg cgcgtgcttt gccaatctca 240
 tcgggcgtaa agtggaaacat cctgatcgtc gcaagtactc ctgtcaagta caatgcaggg 300
 tgcgcctgt agaacctgct acgatctgga ctgcaagaac catcgagtcc caacac 356

<210> 16486
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-B12

 <400> 16486

 cggataaaact gcttgaactg gaagcgaccc tagtccaaac caccgcaccg acaccgactc 60
 cgagccccgc cgcgccgcgc tacctccgct cctctcttcg cccctgccgg cgtcgaggcc 120
 gaagcgaagg cgagcatgca tcacgacccc aacccttcg acgagggcag cgccgaggac 180
 aacccttctt caaatggagg agccggaggc ggcaagcagc agtacggctt cgggccgact 240
 gagcccgtcg ggttcggcgg cgctagcagg ggcgacgccg tcgttgacgt cccgctcgag 300
 accatggggg actctcggag caaggtgaag gagctctcgt cgtgggaatc agatctga 358

<210> 16487
 <211> 132
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-B2

 <400> 16487

 ttgcaactcc ctgacgtgag tcgtattact cagcctcgta ctcgaggag agaacacgca 60
 tcatggcgtc tggaacatca tcacgcgtgg catgtttctac agcatgctta gctagcgcgg 120
 ttacagggga tg 132

<210> 16488
 <211> 275
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-012-Q1-E1-B3

 <400> 16488

 cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgtg ctaaagtgtc ctactgctg 60
 ctctctctcg ctccgcagct catggttcc tcggtctccc tccgtggcgc catcctccag 120
 cgccccacc tcacgccccg ccccgacgcc cgccgcgcgc ccacgacgag gcgcccgcgc 180

gtgcctgcaa agatctgctg catcggtatgg gaccccgagg gcacccctgng cgcgcgcgag 240
ggcggccaca tcgcgcgcct cgagttccgc cgccg 275

<210> 16489
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-B6

<400> 16489

atcgtctgcc ccaactgcaa cggcctcggc aagctcggac agatcgacaa gtagctaaat 60
aatcccatcc accatgcatg ctacgtacta agctcatata catgtgctga tgtgcatgca 120
tggaccaacc aaactgctcc tttgtataag ctcttaatta aatctcctct ccgacaatgt 180
ctgaatgtat atgctgagtg agtggttaatt tggctctgtaa tataacctgt tgctttgtca 240
gaaacgatgt tgtgcaataa cattgttgctc ggtgggtgttg ttgtatgtgc tagtgatgtc 300
tctcaatata tgtatgtcta tcagatcaaa ctgtttgtgca atcaagcttt tcgtgc 356

<210> 16490
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-012-Q1-E1-B7

<400> 16490

cagggccttag tgggtgtgta catatgtggc agtggttagtg cccctcatct tattgcaaac 60
tgcgctcggg gcaatgcgcg tgagcacggg tactcccttt cttttctcct acctgcctat 120
tacctttttc ctttggctct cacatactga actcgtggaa aatgtacata tacatacaac 180
atatgttcgt ctgtgtataa catgtgggta tcagttggta gacatgcttt gtaaggatgt 240
ttggatagta gttactagtg aatggtaaga gaagagaaga atggtaaaga gaagagaatg 300
ttttgccaca gataactcat gtaaatactg taactaaata aggccttgga tatttcctcc 360
atgtgtgtgt ttgttcttta caanatagcc actatctggt aaaat 405

<210> 16491
<211> 61

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-012-Q1-E1-B8
 <400> 16491
 cccatatgca tcagcagtgt gtaccactat atatgttata tactgtatatt cgctaccgaa 60
 t 61

<210> 16492
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-012-Q1-E1-B9
 <400> 16492
 agggcggggtc tccctcggcg acctcttctt cgacgagccc tcctcgccga cgtcctactt 60
 ccgtctcccg ggcggcgccg actccggccg gtaccagcag gtgacgtcga gcgacctgtt 120
 gtcgtcccac acgactacgt cgacggccag ctccggtgca gccggcgtgg cgcgacgacg 180
 ctctccgatg aggtgcccg cgcaccgccg gcgcccggtc tccccggacc cgtgactcga 240
 tcgtgaagtg aagctagccg cccgtgaggc aaaaaaagaa aagcaagcga aggtttgttt 300
 gtcgatggcc tcacgtagca gatggagcgt gtggtatacg tagtatgagg atgatgctga 360
 gtaattgtga atattagcct c 381

<210> 16493
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-012-Q1-E1-C1
 <400> 16493
 agcagtgcaa caagcaagat ttacctgcc atcgatcata tcgtcaactg gtccggcagt 60
 tcggacaccc atgagctcca cggagtgcgg cggcggcgcc ggccggcgcca agacgtcgtg 120
 gcctgaggtg gtcgggctga gcgtggagga cgccaagaag gtgatcctca aggacaagcc 180
 ggacgccgac atcgtggtgc tgcccgtcgg ctccgtggtg accgcggtt atcgccctaa 240
 ccgtgtccgc atcttcgtcg acatcgtcgc ccagacggcc cacatcggct gataatatat 300

aagctagccg ctatttcctt tccttgcccc agaactttga aataatatat atacgatgaa 360
ataacgcggg catgccgaat 380

<210> 16494

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C10

<400> 16494

cactcagctc ataggatgga cgccgctggt cgaattgaag cgaatcgcca gcgaggctgg 60
gatcgatgcg cggatcgctg gcaagatgga ggcttaccag ccactttgct ccatcaagga 120
ccgctctgct ttgagaatga tagaggatgc tgaggagagg ggattgattt cgcttggagt 180
cacaacactg gtggagccga cgagtggtaa catgggggta gggttgggtcc tcttcgctat 240
tcagagaggt tacaggctca ttgcagtcac gccgggctaaa tactcgcttg acaagcagat 300
cttgctgagg ttcatgggag cgagagctata cttaactgat ccgggc 346

<210> 16495

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C11

<400> 16495

caccaaacca aaccgctctc gagtctccat ccattctctc cgctcatccg cagctctcta 60
gtctccagct ctagctagcc ttagcctcgt ccaagggacg aaggggccac catgagcgtg 120
gtgatcctgg acggctccac ggtgcgcggc ttctgtggcgg acgaggcggc cttcgcgcgc 180
agcctggacg cgcgcttcgc cgcgctggac gccaacggcg acggcgtgct gtcccgcgcc 240
gagctccggc gcgcgctcga gtccttcgc ctcctcgacg gggggggtt cgggtccgcc 300
cagccggcgc cgctccccgc cgaggtcccc gcgccgcgc cgtcc 345

<210> 16496

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C5

<400> 16496

cggacgcgtg ggcggacgcg tgggcggacg cgtggggaga ccgcctcggt actcaccaca 60
ccgtgctcgg gccggagcag agaaaggtaa ctgcctcct ccccttcgac gccacccccg 120
cctccgtccc caccctcgc tactccgccc ccacccctc cgcctccggc ctagccactg 180
tttgcccagt ccccgtcact ctgaaaggag cagcagccta aggcacgcgt gccaaagagt 240
gataacaaat caaaagggtg atcatctcgg tgcccaccaa acctcaaaa tcaagtttca 300
tgtctaattc cgacgttcag cttccatctg ctttgatttg tttgtcgagg cagatgctga 360
ggctctggtt ttgctcctgg aacgaaggat tacgtgcatg ttgcctcct a 411

<210> 16497

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C6

<400> 16497

ggacgcggac gcggctcaca tcaaacaccc cctcctcccc cttcagctgt gctcactgcc 60
gcaaaaccac acagccacac aggcaaccag cgcccagcgc ctttgacat caccacatcc 120
acgtccggtt ccatggccat gtcgagcagc gccagcaaga agcaagccca ggcccaggcc 180
cagaaggccg ggcgaaggcc cccggcgggtg tcgtcggccg cggccgcgga cgcggagatg 240
cagaggggtg tctcgcgcac cgacgcggac ggcgacgggc ggatctcgcc gtcggagctg 300
gcggcgggtg cgcgcgccat ctccccgccg gcgagctcct cgcacggggc gcgcgaggtg 360
gcggccatga tggaggagct ggacacggac cgcgacggct tcgtggacct 410

<210> 16498

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C7

<400> 16498

ctcgatccag acagcaggca gcagccatgt ccaaggtctt caccctcgac gcggtcgcca 60

agcacaactc caaggaggat tgctgggtca tcatcggcgg caaggtgtat gatgtgacga 120
 agtttttggg agaccacca ggaggtgatg atgttctgtt gtctcaact ggcaaggatg 180
 cgactgatga tttcgaggat gtcggtcaca gcaacactgc ccgcgcgatg atggatgagt 240
 acttgggtggg tgaaatcgac gcgtcgacga tcccttccag gacgaagtat gtcccccca 300
 aacaaccgca ctacaaccag gacaagactc ccgagtttgt catcaagatc ctccagtttt 360
 tggttcccct ggcaatcctg ggcttggctg ttgccgttac gatgtacacc aagtcgg 417

<210> 16499

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C8

<400> 16499

cccacgcgtc cgcgacgcg tgggttgcaa taactgtgct gctaggcacc cactccccag 60
 tcaaggcata tccattccat ggatctcgcg cccctgctcc ttctctccca gctgctgctg 120
 cttccggtgg tggcggttgt ctccggcgag accgcgcgcg acccgggcta cacgcacgct 180
 gaggaggcat gcagcgggtg gctagaggca gaggcggaga aagcaacggg gctgggtgct 240
 gcgccagagc ggcgcaaga gttcgacggc gggcggatcg tggacatcag ccactactac 300
 cgcgaggaca tgccggagtg ggagtcatca gagggctccg gcgagttcct gcagctggcg 360
 cgggtccatgc gcaacggctc cgacatcgct aacttctcgg agctccggct cactgcgcac 420

<210> 16500

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C9

<400> 16500

gggagcgtgc ggctgctgct gggcgttctc ggcgggtggcg gcggtggaag ggctgaacaa 60
 gatccggacg gggcggctgg tgtcgtgtc ggagcaggag ctgggtggact gtgacgtcag 120
 cggcgtggac cagggctcgc acggcggcct catggacaac gccttccagt tcgtcgcgcg 180
 ccgcggcggg ctggcctcgg agtcgggcta cccgtaccag ggccgggacg ggcctgccc 240

ctcgtccgcc gccgccgcg gggccgcgtc catccggggc cagcaggacg tgccgcgcaa 300
caacgaggcc gcgctc 316

<210> 16501

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D1

<400> 16501

gcctgcagca acttgcaggt gataggtgag ggcacacaca cacacagaga cacggctgca 60
tctctgtgat taacacatta ctggtctcct gcagcctgct gtagtggtgt tgctgtgcct 120
ttggattcta gaagacattc tgtatataaa acagcactcc taacagttca gtctagaacc 180
tagaagtaga aactgttatt gttatgatac ggaagcactt taggggaaca gttggagaca 240
catttttat 249

<210> 16502

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D10

<400> 16502

ctcccatctc tcaaacatct acgaagaaca taggtccatg ctgtagcttc agctcgtctt 60
ctgatggtaa tggatacatg gctggaaact ctacgcgagag tgatgaagac tatgttaatt 120
ctactgtgct agaagcagtt gaggtgagaa gtggatcaga aggatatgtg ataaagatgc 180
gagatggaaa gaacttgcgt tgtgtccata gtaattttca agggagaaat attccagaga 240
atacaccaca acctgctatt gttttgagga ttgaagatgg aagcggaact ttactccga 300
tcattgtttt ggagatgcca agcgttcttc tgatggcagc tattegtaat gtccacattg 360
cacgaccgac catat 375

<210> 16503

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D12

<400> 16503

gcttccccag ttccccagc tccccccacc ttccggttgc ttctcgaact caacccccgc 60
ccccgtcgcg gatcgatcatg gccgcccggc tcgccttccc cgtcgcctcc tttccactcg 120
cctgcgtctc ctacactccc caccgccggc accgcatctg ctgcgcgac ccgtcgctgt 180
cctcgcgccg caccgtcaaa tctcgccgc tcgcgcgac taccgtcctc tccagggaac 240
gacggggcac gggccgtggc gcgtccgtag tgtgcgctgt ccaaggccag gacacgacca 300
tccaagatgt gacaaagtca acatggcaat cactcgatgat cgagagcgag cttcctgtcc 360
tggttgagtt 370

<210> 16504

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D2

<400> 16504

aacaatttat catgtgaaga gccatctgca gataagaagg cttcctcgga ggataaaaaa 60
gcacaattag gaaagggcag cattgattca agcaaaaaca agaatttaca agtggcagaa 120
gctctaagga tgcaaataga ggttcagaaa cagcttcatg aacaattaga ggtgcaaagg 180
cagttgcagc tacggataga ggaacatgca agatacttgc agaaaatact agaagagcag 240
cagaaggccg gcaatgtgcc actaaaagct ccaaccaaag cacaagcaac aaagtcgtca 300
octgaatcga cgtcagacga gagaactgaa tccgaggtag acaccatttc tccgcggcca 360
ccaagaaca ggaacccggg tgtagacgca gaatgcaaat cgccggg 407

<210> 16505

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D3

<400> 16505

atttaattag tattgcacaa tgaaaaattc aacatcaa ataaacaacaa caggcatcac 60

aacaaaattt gtatatctat gtgattatgt gtataaaaat tggtgatttg tgatgcattt 120
 gtatatataa cagttgttga at 142

<210> 16506

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D4

<400> 16506

atgaccatct actcaaccta gtgctagatg aagcagttga atatgaaaga gagcaagatg 60
 acccattgaa gctatcaggg aaaaccagac agcttggcct catttgtgtgc agaggcacgg 120
 cagtcatgct ggtctcaccg actgatggaa ctgatgagat cgccaaccct tttcttgcgg 180
 aaggagcata agcttgcagt tggtcgatta tttagaaccg tgctctcatg tcaccctcag 240
 aacgatgtgt cccagtgggg aaaagaactc tctattctcg taccggttgg tgatgaactc 300
 tgtaatatcc accgtgcaag tgcaacttaa aacatctgtg atacgagctc ttttttttaa 360
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc 420
 cgc 423

<210> 16507

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D5

<400> 16507

agcgccgccc gccggcaggt gcaggtggtg actttgtaac gtgtgtgcgt gcgtacgtgt 60
 acattgcata catcttgggt ccaatggaca tatagtcct gttgctcc 108

<210> 16508

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-012-Q1-E1-D6

<400> 16508

cgacgcgctg ggccgacgcg tggggccgcg gagcgtctgc gccggttcga ggtgtaccgc 60
cagaacatgg agctcatcga ggccacgaac cgccgcgcgc agctctcgta ccagctcggc 120
gagacccccgt tcaccgacct caccagcgag gagttcctcg ccacacacac catgtccacg 180
cgctgcatg cgtccgaggc cgcgcggcgc caccgggagc tcatcacgac gcacgcaggc 240
cccgtcagcg acggcggtcg ccagtggaaac cggcggaact acacgacgga cctcgacgtc 300
cccgaaagcg tggactggag gaccaagggc gcggtggcgc cgggtcaagga ccaaggagct 360
tgtggcggtt gttggtcatt cgcgacggtg gcggcgatcg aanggtgca caagat 416

<210> 16509

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-012-Q1-E1-D7

<400> 16509

cccacgcgtc cgcccggcca tctcaccgag gacaacggtt tcgatgtttt cgtcaatgga 60
cgacgtggcg gcggcggcgc cgtcggcatg aggagggcca acatcgcgga ctacttcgtt 120
ggccctggac tggatgatct tatcgagcag ttgaccaga atgatcgccg aggaccacca 180
cctgctgcac agtcctcgat cgacgctatg cccacagtga agatcaccca gaggcattctc 240
agtggggact cgcattgccc tatctgcaag gagaagttcg agatgggatc cgaagaagca 300
agagagatgc catgcaagca cctgtaccac tccgactgca tagttccttg gttagagcag 360
cacaattcct gcccgtntg ccgttacgag ctcccgccac agggctctgc cacgggtg 418

<210> 16510

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-012-Q1-E1-D8

<400> 16510

cccacgcgtc cgcccaggc ttctttaatc attattaatt agagggttatt catgacggtg 60

tgcagccttc ttttatttga cttagagcca gtatggatta cagagctggt gttgtggaaa 120
 ttgtctagct gtcttcatta ctttaataatc ttttggtaga tgctgttgat cctgttttac 180
 ctgaattcag gaaacagctg gagaactcag gcaggacttt ccaccagaaa tacaagttgg 240
 ttttcatggt ggaaatcgaa atttagtatg taccatgaca ttgtacagtt cgatagtaga 300
 ttatttagag tgttgtaagc cttgtagctt atgtttttgt tggcatcaag gtatcattcc 360
 tgtagctgaa aaataaacgt tatattgtca gaaatatgga attctagggt gtnnttggtc 420
 c 421

<210> 16511

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D9

<400> 16511

caccgccacg acgctgctgt ggccatcgcc ggggagagaa ggcggcgccg cgcaccggcg 60
 cgacgggtac gcgtccgaca cgctgggcac ggccaccgag gacgacgcca aggagaaggg 120
 cgtcgccgtg gaggaggagg gccccgcgt cccgaccag tgggtggcgt tctccgccga 180
 ggctcgccg ctggaccggg tcagcgcgtg ggtgaacagc ctggggaact gctcgttcca 240
 cgccgtcgat gaggacgggt gcgccacggg gcacggcgcc gacggcgccct cgcgcccgcg 300
 acgctctgag atcgtggagc tgccgacgtc cgcggccggc ggaaggaggc atccgcagc 359

<210> 16512

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E1

<400> 16512

gaggacaact tatgaagcca tgtaaaggaa ttttactttt tggccacact ggtacgggga 60
 agacaatgct ggctaaggct gtggcaactg aggctggtgc taatttcata aacatatcga 120
 tgtcaagcat ctcttcaaag tggcttggtg aaggagaaaa atttgtagaa gctgtgtttt 180
 cactggcaag taaaattgct ccaagtgtaa tttttgtgga cgaggttgat ggcattgttg 240

gaaggcggga gaaccctgga gaacatgaag ccatgcggaa gatgaaaaat gagtttatgg 300
tgaactggga tggctctgaga acaagggaga aagaacgtgt attagtactt gctgcaacta 360
acaagccatt tgatcttgat gaggctggt 389

<210> 16513

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E10

<400> 16513

ctgaaggatg ccattgcaat gcacaacact gctcgttgca gcattgggcc acctggttga 60
gttggcgatg ttgacttgct ggataacgcg agccctcaag agaaacctgc agaagctagc 120
ccacggtaga ttcattgaga tgagctccac ctcatccact tctacgtcct gctcattggt 180
ttcttcacta tagatctcaa tgtaatcagt tgtggagaac ataagtagcc tcggttcatg 240
aatcagatgt atggattatt gtaacgcatt cttgaaaggg aaaaacatgt attatagcgt 300
gataactgta ccttttgtgt ttgtgtaca gaaccataga attgtacttc attttaggtg 360
aagacgcctt tgaacattta agctcccttg tgg 393

<210> 16514

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E2

<400> 16514

cggacgcgtg ggcggacgcg tgggcggacg cgtgggccgc cgtgacacg ttggcccgac 60
ttaaccttac gatggccgcc gcctccgcc tcaccgccgt ctccggcggt gtgcttcccc 120
aaaccttctt atcccaccgg tcgcccgcgc cgcaggtcct agccgtggcc tctcattcc 180
accggtcttc cttgtgcgt tcccatcgcc gaactactca cataatcccc cgcgctgatg 240
caagtgccga agctggagaa ccggagcctg tcactacttc agctgaatcc gaagaggagg 300
tggccgaggg gtctgtcgct gtggcggagg cggaggaacc gacgccgcg agcaagccga 360
aggttaagtt cggcgaaata attgggattc tgaataagca gtcc 404

<210> 16515
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E3

<400> 16515

```
cccacgcgtc cgcacgtaga tagcagcagc agcagcggag ctgttcgacg aaatgccgcc 60
atggccgccc tgcctccagc ctaccctcac caccgctcgc cgcgccaccg tattctccag 120
gacgaaatgt ctctcttcta cccccgcctc tcctacctac gagcaggggc aacacgagga 180
ggagccatcg ttggtcgttg tggggggcgg cgcggcgggc gtgtacgcct ccataagggc 240
caagaccctt gctccgcacc tcaacgtcgc ggttgtggag aaaggcaggt tcttgtccaa 300
ggtcaagatc tccggcgggtg gccgtgcaa cgtaaccaat ggccatcacc ttgagcccat 360
gggactggcg agaaattatc caagggggaa caaggagctc cgaggatcct ttctttacgc 420
tcacgggccg caagat 436
```

<210> 16516
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E4

<400> 16516

```
cccacgcgtc cgggtcgacc tcggcggcg gagcagcaag gagcgggacc gcaaggtgct 60
gctcgagcag acgcgcgagg agcggcgccg gcgccagggc ctccgcctcc agaacacctc 120
cgccacgaag atccaggtct gttgacgact cgctgcccggt ggcgtaggctc agggtaggcg 180
ttggagcagt acgatcgtgc aggggtttat ctacctcgc tctcggtagt ctcatgggct 240
ctgaaatcca actatgagcc ttttggcgggt tgtgaatgct catggctcag ctggttttct 300
ttggctgaac cgctgaagac ggattccgtg ttaggatata gctttaggct tctcggcatt 360
aaaatggacc gctaacttgg cttcttttcc ttttctctt gtgtggtgag aggatgagtt 420
agcgtgttc 429
```

<210> 16517

<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E5

<400> 16517

cccacgcgtc cgtgtaaatt cattgatgaa atccttcggt ttgtggagct tgtgctatta 60
atgtactttt gacatttaca aaatctgtgc tgtgttcgtg gtgcagaaaa gttttgttct 120
gagtattatc ttgaaacttt tgttcaacca accttttgag 160

<210> 16518
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E6

<400> 16518

ctcgtctgttc cttcctcatg gccaccgcct gccacctcgc cgcgcgcgtc ggctctgccc 60
cggttccccg cggctgcgcc tctgctggcg tctgtggcgt cgtccgggtgc gctcggtcgt 120
caggctccaa gatcccgaga ggctgtgctg tcagggcgac gtccggcggc gagggcgcca 180
cggaggaggt gccggagatt gtgaaggctg cgcaggacgc gtgggacaaa gttgaggaca 240
agtacgcctg ggccaccatc ggtgtcgtg ccatcgtcgc gctctggacg gtagtaggtg 300
ccatcaaggc catcgacaag cttcctcttc tgcctggtgt ccttgagatt gttggaattg 360
ggtatacagg gtggttcaca taccgtaacc tcgtcttcca gccagacagg gaagctctga 420
tcggcaaaa 429

<210> 16519
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E7

<400> 16519

caccactccg cgctagctga ggacggtaca gcggcacaga ggtgcgacgt acgacgacga 60
cgacgcaggc gccacacatg gcatccagc tctccgccgc cgtgccccgg ttccacggcc 120

tccggggcta cgccgcgccc aggtccgcgg tggcagcgct gccgtccgtg aggggtgggca 180
ggaagaggtc gtcgtcgag ggcattccgt gcgactacat eggctccgcc accaacctga 240
tcatggtgac gacgacgacg ctgatgctgt tcgcggggcg gtccgggctg gcgccgtcgg 300
cgaaccgcaa ggcgacggcg gggctgaagc tggaggcgcg cgactccggc ctgcagacgg 360
gtgaccccg cgggttcacc ctgcgcgaca cgctgggctg cggcgccgtc ggcca 415

<210> 16520

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E8

<400> 16520

gacgcgcggg tcgacgcacg cctctacact gagctccact agctgaggcc ggtacagcgg 60
cacagccgtg cgacgtagaa ctaccacgac ccaggcgcgg cacatggcat cccagctcgc 120
cgccgcccgtg ccccggttcg acggcctccg gggctactcc gcggacaggt ccccggtggg 180
acccagcggg tacttgctgg tcggcaggat gaggtcgctg tcgcaggggc tcctctgcaa 240
cgacaccggc tccgcgaccg ccctgatgac ccgcatcaag tgt 283

<210> 16521

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E9

<400> 16521

gaaaaagaga ggcaagagag ataggggacc ggagggcggc gggccggggc ccaagaccga 60
ggggctcgtg cgcaggaagc tgatgaggct cctgtcgctc gtcctcttcg gctgccgtgc 120
tggacccatc gacgacgcgc cgccgcccgt ggaccacgcc gccgccgca ggaggcgccg 180
gaggaggagg gccaacaggg ccgcccagct gctgggggct gctgcgggtg cgccgcagca 240
gtggcgcccc tcgctcggcg acatctgcga ggagtacagc agcagcaccg acgccgtcaa 300
ggtcaggaag gcggcgctct gggacctcgc ccggggcgctg ccccgcgcg acg 353

<210> 16522

<211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-F11

 <400> 16522

 catcaattta ccggcaggtt attttaccag tcacaatgat gcttcctgga atcaaaataa 60
 ctatcttccg aacaaatcat ggaaccttca atcctataat atcttcatac agaaatcaga 120
 actgaactga aggttatgag caaggatgaa ctgtgttccg gccgtcccg tatatgaatt 180
 gtgtcaaggg taataacaat attagtttgg atggagcagg aacaagcatt gctgcattgg 240
 aaacaatctg gaatgctttg ggcttttaa atccgtaccgt ttttaggtag gattaagctc 300
 atgtaacaca gcaaaactttt cacttagatg cactatgaat caagtgaatc gt 352

<210> 16523
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-F12

 <400> 16523

 gactcgtggt tcgtcacaa accctagact gagtcgtact atagtctcca gtccgacact 60
 ccgactcact cccctcccc cgccccaacc cgtcgcaatg gccgcgtct ccgcagcccc 120
 gaggcctcgt atgcctcccc gactcgcct ccgtgcccac ctcttctcct ccgcctctcc 180
 gctcccaatg cgcgcgctcc ccttactccg cagccgcttc cgtccttga ccacggccta 240
 cgtgtgcaag caggacacgg ccctctggac cctgcaccc gtctccgcca tcagtgtctgc 300
 caccgacgac ggctccgtct ccctcatcgc cgtcgaccta tctgacgcca cggacctcgt 360
 ggactcgtac acgaaccgg gccaatacct cctga 395

<210> 16524
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-F2

 <400> 16524

acttcccaaa ccctaccggc ggcgcagcag catcacaacc accgcccga gatggtgaag 60
 tttctcaagc ccggcaaggc cgtaatcctc ctccagggca ggttcgccgg ccggaaggcg 120
 gtgatcgtgc gcgtgttcga ggagggcacc cgcgaccgtc cctatgggca ctgcctcgtc 180
 gccggcctgg ccaagtaccc caagaagggtg atccgcaagg actccgcaa gaagacggcc 240
 aagaagtccc gcgtcaagtg tttcatcaag ctcgtaatt tcactcacct catgcccacc 300
 cgctacaccc tcgacgtcga tttcaaagac gtcgcctcgg gcggggccga cgcgctctcc 360
 acccgggaca agaaggtcga agcctgcaag gccgccaagg cgcgcct 407

<210> 16525

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-F5

<400> 16525

gtgcaaggag atgccacagt ggatgctgtc tttgctaaga tcgacgagct gctgggttct 60
 atcctggaga agaaaaatga aatggtgtcc agcacatgag caaggggaat atatctgaag 120
 cacaggacga cacgtacaag taatgtaagc cagtctcacg taatggaaat ttctccatgt 180
 ggatgtggtc aaagcatagg attttttttc tccaattggt aactgtacgc gaatggaagc 240
 gacagatcat ttgtaggttg tgagggcttc aaagatcacc tgctgtctgta catgttttgt 300
 tgctgtcctg tgaacataca tgttttggtg tttctcaact ggaggaatgc tgttaacctg 360
 ctgctcc 367

<210> 16526

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-F6

<400> 16526

cccacgcgtc cgcagggata atgcaccaga cgtgaaggcc aaatttgtaa tcgaagctgc 60
 taaccatcca actgatccag aggcagacga gattctcgcc aagaaggggg tagtagtatt 120
 acctgatata tatgctaatt caggtggcgt ggtcgtagc tactttgaat ggggtgcagaa 180

cattcaaggt ttcattgtggg atgaggagaa agttaacgat gaactagaaa agtacatgag 240
cagtgcctttt caacacatga aagccatgtg caaatctctg gattgacgacc ttaggatggg 300
ggccttcacc ttaggagtta acagggttgc tctgtccacc cttttgagag gctgggaggc 360
atgagaccat tgaccgcgca ttacagattc gacaggcgca ttcaataatt cgtgtccaac 420
aacg 424

<210> 16527

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-F7

<400> 16527

catcatcatc tatctagact agagcaagct aagctcaagc tgggctagca ttccagaagc 60
tgcatctatc agctaccggc ctctcgattc atcgcttgcg atcgaatgga gaagatgaac 120
gtgggttgcga gcaggaagca gcccgcgac tggagctgcc ggtcgtgcca gtacgtgaac 180
ttctgcaagc gcgacgcgtg ccagcgctgc ggcgagggca agctgggctg ggagcgcacg 240
gactacgcgg cgctgggagg cgactgggac gtgaagcccg gcgactggta ctgctaccgc 300
tgccggcgtga acaactacgc ctcccgcgcc agctgcttca agtgccgcgc cgccaagaac 360
gagtcacagg gcgcccgcgc gcagggtctg gggt 394

<210> 16528

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-F8

<400> 16528

cggacgcgtg ggcgacacga caccaagtcg aggagctcga gggcaccaat catggccggc 60
gtgaactcca gcgtcgtcgg gctcaagccc gccgcggcag tgccgcaggc cgccgcgcgc 120
tcacgcgcgg cgaagcgggt gcagctggcc gcgcccaggg gccgcgcgc cgctctgctc 180
ggcctggcgg ccgtcttcgc cgtcacggcc accaccgggt cggccaaggc cagcatcttc 240
gatgagtacc tcgagaagag caaggccaac aatgagctga acgacaagaa gaggctggcc 300

accagtggcg ccaactttgc gcgcgcctac accgtggagt tcggcagctg ccagttcccc 360
tacaacttca ctgggtgccca ggacctcgcc aagcataaga aagtcccctt catcagcgac 420
gacctcgaga ttgg 434

<210> 16529

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-F9

<400> 16529

gcctgaccag ctaggatcag cggaagcagc aatggtgatg gcgtcgtcga gcgggctgag 60
gagctgcagc gccgtgggag tggccagcct gctggcgccg tcgtcccggg ccggccgcct 120
ggcgccgttc tgcgccaacg ccaccacctc tggccgcgtc accatgtccg cggagtggat 180
gcccgccag ccacgccctg cccacctcga cggctcctct cccggggact tcggcttcga 240
tccgctgggc ctgcgcaccg tgccggagaa ctccgagcgg ttcaaggagt cagaggtgta 300
ccactgccgc tgggccatgc ttgccgtccc cgggatcctg gtgccggaag ctctgggccc 360
tg 362

<210> 16530

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G1

<400> 16530

cccacgcgtc cgcgccaccc gataataaaa acagagcgcc acacgagcgg gcgcaacgat 60
gcttcagggt cgcgcgtcct eggccttcct cccctccacc tcctccccct ccccgccatc 120
ctcgtcgcag gcaccggcgc cagcgccgtt cgggtctctg gggaagagcc agcggcgcg 180
cgggctgatc gcggtgccgc aggcgagccg cgtggctagg cggtcctgta tggcagcggc 240
gggggcagcc gcagccgccc cggcgccggc caagctcgag gacgccgacg cgctcatcga 300
ctctgtggag accttcactc tcgactgcga cgggtgtgat tgggaagggcg acaagctgat 360
cgacggcggt ctggagactc tcgacctgct ccgatcaaag ggcaagcggc tgggtgtcgt 420

gaccaac

427

<210> 16531
<211> 367
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-012-Q1-E1-G10

<400> 16531

cggacgcgtg ggccggacgcg tggggctccc cacggtgggg tgcgaggccg acgccgccac 60
cgtgcacacc tcccaccagc gccacgcctc ctccgcgcgc gccttcgcgt acgccgccgc 120
ggggtcctac gtcgcgcgt ggcccagggg ccccgcgctc gtgctcgagg tggagcactg 180
cgtcgtgcgc cccgacgcgc ccgccgagga ggccggcagg gtccgggtgg tgcagaccgt 240
ggcgctgggc agggaggcgc ggctccgcgc gctcaaggtc ttccgcgagc agtggtagcg 300
cccgttccgc gacggcgagc agctcggcgc ctgcgcgcgc ngggagaccc cgttcggcgc 360
cggggag 367

<210> 16532
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G11

<400> 16532

caggcacagg actaggactc gggggtcgac acaagcctct acacacacgc ctgtgattat 60
ggatatggtc agcaatctgg gggctactat attccgaatg ctgcatatgc ctatactagt 120
gcaaacgaac ttgccagag gatgaatgac ctttcagttc aaaacggtga tccaaatgga 180
gccgcagcaa ataagcagag cagacctgag gatgcactct ttggtgatct cttgagcatc 240
gccaagatga agcaaaacaa acctgcagct ggcaaggttg gcggctaagt ttgagtaaag 300
aaggtagata attttatctt aattgccagc agcagaaacc tttctgaca gcgcatataa 360
ttattttgc acgttctatg caatgccaga t 391

<210> 16533
<211> 366

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-G2

 <400> 16533

 gatcgagctg cacaaggaag gaaagaagga gacacacaat cgtcgcctgc ttaaccagag 60
 cgacaatgcc caagctcagg ctcatcttca cggttattct tgtgggtgtct ctactgttca 120
 gtgggtgtgtc ttcaggacaa actgcagcta cacaagccag cgatgcagat ctttctgaag 180
 cggttgatgt tgagagacgc agtggaaggt ttctgacgta cgttcaggac tacgactacg 240
 gcggggtccaa ccccaaacad gaccacgca ggaagccagg gaccggacac cctcaatagg 300
 taccgaagga taaccttccg gtgacgctcc agccactgga ctctgctggg acctacctac 360
 tcttgc 366

<210> 16534
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-012-Q1-E1-G3

 <400> 16534

 gtttatgccg cccacttctg ctgcagaaac agtccgaata tgtgcttttc cagccagccg 60
 tttgggattg caagatattg ggatcagtcg cgattgcaat ccagagaaca gggctagccc 120
 aagacagctg tttaactggg ctctggaacc tgctgctgat gaaactctag acaaattata 180
 cgagcttggg tacctggacg cagctgtatg ggctgagcag aattatgctg agcttatcgc 240
 caagaatgat caatcccttg tgcgtgattg aattgagttc agtttgccca gaagtaattt 300
 tggatatcaa agctgagttc atgagaatcc atgcctgtaa tatattgtaa agatagcacc 360
 gtcattgtcg aaggtggcat tgttctgcat tggatttggg tgtttatgcc agcattttcg 420
 tancgtgac at 432

<210> 16535
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G4

<400> 16535

ctttgacagg agaagggaga acatgcaaaa ctaccagaac agagatgggc ctccctgcca 60
aggtttcaat ggccctccac ctccacctgg ccagaaccag atgccatccc accatgggtca 120
gggcaacatg cctccgcaac caccacatgc tgggtggcggc caaccaaact atcagcccca 180
aatgcaaaac ccacagacgg gctacaaccc tggcgggtgct cctcactacc agcaagggtgc 240
tgctcctggc taccaagggtg gacctccggg gtatcaagggt ggtaaccaag ggaaccagg 300
ccctgcctac caagggtgta aactggtta tcaagggtggc aaccaccac ctccctacca 360
aggaagcaac ccaccacctc cctaccaggg aagcaacca ccacctcct 409

<210> 16536

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G5

<400> 16536

acgcgatggg acgacgcaag accctacagg gagtacgtac tcagttcttc aatacatcat 60
caattatcga ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaaa 120
aaaaaaaaaa aaaagaaggg aaaaaaaaaa aaagaaaaaa aaaaaaaaaa ggggaaagaa 180
gaaaaaaaga agaagagaaa agaaaaaaaa gagaaaagag gaaggaaaac aaagaaaaaa 240
aagggggggg ggggacaagg gggtcgaaac ggaagtcggg gggatgggaa atctgaaacc 300
ccgagaaggg gaggcggaag aggaagtaag ggg 333

<210> 16537

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G6

<400> 16537

cggacgcgtg ggccgagctc ctctcctccg tcgcgaagct cgcgctcacg gccgcgctcg 60
tctgcggctc tggcgggtccc gctgccgtcg tcgtcgctgt tccggccgcc gctcaagccg 120

tcccgttcgt ccgtcctcct cctcccctgc aagggaaggc cttaacctcc tccaatcctt 180
taggcaaatt ccaagaaccg gaaccttggc ctgcacaacc tcggaaagat caggccatgc 240
ccgtcaacca acccggggtg cgtgtccacc aaccgctgg gatcctccgg ctccctcgcc 300
tcgccactgc tcatcccga atcatccgca ggggagaagg ccgtcgctc gctgcggcaa 360
gccatcgaga agacgcagcg taatgtggag ttcaaggteg a 401

<210> 16538

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G7

<400> 16538

cggacgcgtg gggtaaaaca tgctcatgtt ttgctccac ctttggagac attgtgtaca 60
gtggaggaaa cttgtgtccg tgataaagca gttgaatctc tgtgccgtat tgggtgcacaa 120
atgaatgaaa ctgacattgt cgactgggtc attccagtag taaagaggct agcagctgga 180
gagtggttta cagctcgcgt atcgctctgt ggtcttttcc acatagccta tccaagtgcg 240
tcggaccaat tgaaaacaga attgaggact atctatggtc agctatgtca ggatgacatg 300
cctatgggtca gaagagcagc agcatcaaatt cttggaaagt ttgcagctac agttgaacag 360
aatcatttga agacagaaat aatgtcaata tttgatgatt taaccaaga tgatcaagat 420
tcagtgcgtc 430

<210> 16539

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G8

<400> 16539

cggacgcgtc cggtcagccg agtcgcgct gcggcccat cggttctcac gctcgccaca 60
ccatgoggac gcacatcca tgttctgccg ctgcagcatt gagatcgcg cgcccttccc 120
ctgcatcgac gacgacaacc tcccggcatc tgctgcatgc gtcgcctcg tgccgccacc 180
gcgggcgtgc tgctgatcgt gtcggatgct gtgctcgagt cccgcggtt cactgtgctg 240

cgcacggcgg atggcatcga cgtgtcggcg ctgaccaagg tgttcttgct catgggcttc 300
 tcgctacgtc aggaggagca gctgcagcac gcgctggagc atatccgtct ggtgtggctg 360
 tcaagcagtg aggacgaagg gcggcccgtg gcgttcgcgc gctcgg 406

<210> 16540

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G9

<400> 16540

cccacgcgtc cgcccacgcg tccgcattcc atgcattctg atctgtatgt actccgcccg 60
 tcgatggatg atgcatccat ctctacttgt ttctctcaca tgtacaacaa ttaatgcaac 120

<210> 16541

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H1

<400> 16541

cggacacgtg ggcggacgcg tgggatcgtg tttcaacttg cccttgatta aggcgctaca 60
 gctactgcc aactaaatgta gtattatgtg agctcttttt catcgagaat tcct 114

<210> 16542

<211> 128

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H10

<400> 16542

cccacgcgtc cgcggacgcg tgggtgtata tcttatttct cttcaacatt ttctaaatca 60
 tgtcgtctat atgtaaatat ctatattaga aacaatttct tcaacatttt cttcaacatt 120
 ttatttttt 128

<210> 16543

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H11

<400> 16543

cccacgcgtc cgggtggaaac catgctgttt ctggactcaa gttccgcata ttgagggagt 60
ttttgcagct cggatacagt gttctgctct ctgatatcga tatcattttc ttccaaaatc 120
catttgatta tctttacaga gattctgacg tagaatcaat gagcgatggc cacaacaaca 180
tgacagctta tggattcaac gatgtgttcg atgagccttc aatgggctgg gcaagatatg 240
cacatacgat gcgcatatgg gtttataatt ctggattctt cttcataagg ccgacgattc 300
cttcgattga gcttctcgat agggttgctt accgcctttc tcatgagccc aaatcatggg 360
accaagcagt tttc 374

<210> 16544

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H2

<400> 16544

cccacgcgtc cgtttttttt tttttaaaca agaatttgat cttcatttat agaaccgacc 60
catatgagct agtatgtcat tgctacaaaa tctgcagcag ctgatggcta ccccatgatt 120
tgtcaatggc agcataaaag ctcgaaacaa aacacccagc agtagtagcg ctacacacac 180
acacacacac acacacacac acacagagag agagagagag agagagagag agagagagag 240
aacttcaata catggcaata cgatttattc atcctgggag gcgggtgact tcttcttggc 300
aactgaagcc ctctttccct taagtgtccg gcagttgttc tttgtectct ggccacgaac 360
tgggagtcca agcttgtgcc ggatgccctt gtagcaccta atctcttca gcctctc 417

<210> 16545

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H4

<400> 16545

ccggcgagc ggaagcagct tccatggctg cccaggcttt gtcggagct cccctctcct 60
gctgcgctcg cccggccatg ctccacctcg ccccatcgcg acgctccagc tcgcgtcgag 120
ctccccatcg aacctccatg gcggccgagc tcacagcctg cgcgcgctcc ggctgctttg 180
ctccagcgtc gcgcgctccg ctcttgcacg ccgagcgctc tcttcagctc cttggtcgac 240
cttctctcgc gctctgctcc tctctcttcc ttgcgcgga gctcctgtgc gcgcgctgtt 300
cctgctcgcc gagctgttct ctgccctgcg cacagccact tttcatctcc ctgctcagct 360
caccgcgctg aactgcccag cgccgcgcgc gcttgccctt gatgcctctc gcgtgatatt 420
tggtatctcg 430

<210> 16546

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H5

<400> 16546

cccacgcgtc cgcaccacca ccccgccggc cacactcgtc tttctcacga gccacaggca 60
caggcaggct ctcgagctca gtccaccag cgccgggat ggctcgtcg ttcccgctgg 120
caacgggtccc gtcgctggcg gccccggcg ccaagaagcg gtccggcggc gtcacgtacg 180
tgaggggcat gaacgcctac agcggcctca aggggctcaa caaggatgaac atgctcgggg 240
tgcgcaagac cgccgactac tccttcgcca aggtcgtggc gtcgctcagc cccgcgggca 300
ggaagcggcg cggcgggcgg ttccggcgcc agatgaacgc cgccgcccag atcttcagga 360
tcgcgcccac catgaacggc ctctgtctcg tcggcgctgc cgtcgggttc gtgctgctcc 420
gggtg 425

<210> 16547

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H6

<400> 16547

gggcgcacga ggagaacggc ggcgtctgag atcgcgaggc cgaggcttgt cccgtctccg 60

ctccgctccg cccacccacg gtttctggag gacaattctt cgctgtctag ctttctcaa 120
aagtaaaaag ggtaaattgg atcagaaggg ctttcagttg tcaactgtcca tggtactgga 180
tttaagaagt tccatggggt tgctgagaac ccaaccgaga aaattgtgac caatcttaaa 240
tctttcttgg aaaagcgagg gttgccaaaa aatcttgctc tcggaagctg cacagttctc 300
gaaacagcag gggaaggggc acttgccaca ttatataagg ttttagagtc tgctgttgca 360
gacagaggaa ctgggtcctc ggcacaggga caagtaattt ggattcactt tgggg 415

<210> 16548

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H7

<400> 16548

cggacgcgtg ggcaacacgc tgggggtcaa gagcgacgcg tcgctctact cggccgtcat 60
caactggcgcc gtcaacgtcc tctccacgtc cgtctccgtc tactccgtcg accgcgtcgg 120
ccgcgggatg ctgctgctgg aggcggcgt gcagatgttc ctgtcgcagg tggccatcgc 180
cgctcgtcgtg ggcatcaagg tcaccgacca ctccgacaac ctggggccacg gctggggccat 240
catggtcgtc gtcattgtct gcaccttcgt ctctccttc gcctgggtcct gggggcccct 300
gggctggctc atccccagcg agaccttccc gctggagacc aggtcggcgg ggcagagcgt 360
caccgtctgt gtcaacctgc tcttcacctt cgtcatcgcg caggccttcc tctccatgct 420
ctg 423

<210> 16549

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H8

<400> 16549

cccacgcgtc cgcacacgcg tccgcccaag cgtccgcgca tctctcaact cacatatcat 60
caactggggcc gtcaacgtca gtcc 84

<210> 16550

<211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-013-Q1-E1-A1
 <400> 16550

cgagacgcgtg ggccgacgcg tgggcgcgct cgttttgctt cctcgtcgag gtccaagtgc 60
 ctgcattgat ggccaccgag gtggctgaga ctcccgcgcc gttggcggag gcggtccccg 120
 agacccccgc ggaggcaccg gcggcgcccg ccgccgaggc gaagcctacc aaggccaaga 180
 aggcctctgc gcccaagaag cgtgccaacc cgaccacccc gccgtacgcc gagatgatct 240
 cggaggctgt cacgtcgctc aaggagcggg cgggggtccag ccagtacgcg atcgccaagt 300
 tcgtcgagga caagcacaag gacaagctcc cgcccaactt ccgcaagctc ctgctcggcc 360
 agctcaagaa gctc 374

<210> 16551
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-013-Q1-E1-A10
 <400> 16551

cgaggacgag aagccgcggc ccgagccggt gtcctcctcc gagttccagt tcgcggcgcc 60
 acccgagggc tacgtcgagc ccgcggcgtt tgacgagcta ccgccggagt cccagaagg 120
 agtggcggcg gcgtacgaat ctctctacgg gccggccttc agcggcgaga cattgctggg 180
 gaacaatgtc tttgaggtca aggtggtcga ccccatcgac atggaccggg agcagcgccc 240
 gaacgacgat ttcaccgagc gcgtcggtca ggtcaaccgc gtcaccaagg tcgtcaaggg 300
 agggaggcag ctctcctacc gcgcaatcgt cgtcgttggc gacatgaagg gccacgttgg 360
 tgtccgcgtg ggaaaggcca atgaggtcac ggaagccatc accaa 405

<210> 16552
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-013-Q1-E1-A11

<400> 16552

cccacgcgtc cgtttcagga aggattcggg cgtatgttct tattaggctc gtacaagtcc 60
aagttctggt actaggagaa cgattttaat cacactaacc tgtacagaaa attggtgatg 120
cttatacaat aaaaaatggt aacaccata gcttgcatatc agttacattg cataattaca 180
ttcggcatgc ttgcagagaa cccatgacag agtgcttgct gtcaactgtc gctacaaaag 240
gttactgccc caggattcga gatcctgagc ttttgatggt ctctagaaat tctttccttt 300
ttggcttgaa gaggagattg ttgtagatga aaagccatgc aaccaataac ccgactagtt 360
caaagagaag aggaaggacc gggagcttgt cgatgatctc aatg 404

<210> 16553

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A12

<400> 16553

cggacgcgtg ggggggcgtc gtgaccagt tttctccggc cgagggcggc ggcaccggcc 60
aaccagcgtg agcgcgaccg gcgacatgac tcgcggaac cagcgtgacc ggcaccgtga 120
gcgcgcggcg gcgcggaagc ccaacgcaa gaactcccat gacgggctca ccccgagca 180
tcgccgcgag agggacaaga aagctctgga ggataatgcg ggcaagaagg cgcagcaggc 240
agctgccggc ggaaccggta cctccacgga caacagcaag aacacggcag gtggcaagaa 300
gtatgaggca gtggcgcgcc gccacctctg tacgattaat cgatgccttg agcttgtaac 360
ttgttcgcat ccttgtaagt gcgatgcgtg ttgggtcata aact 404

<210> 16554

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A3

<400> 16554

cgcacgcgtc cggccacgca tcggcatgtg cttcccttca cgtgagctta tgaggccctg 60
acgttggtga tggacgcctg ttacctctc taagggtgct tcttgccgat gatccatacg 120

ctgttcacaa ccataacccg aataccatgt cgtcacatgt tcatacagga ctttttaggtc 180
ccactgttga agcatcagca ctctagagac ttcttgcgct ttgcgcgatt gctcgccagc 240
acgttcagag tctaataatg gacgatcaat ccattctagg aggtggggccg ccacatatca 300
ctcaactgga cgtccaattg agattgcaga agaagttcac gatagttgac atgatgcac 360
agatcaacag gagaatcatg atgtta 386

<210> 16555

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A4

<400> 16555

ccgccttcgg cgaggcccg gtagcatgc gcaagacggc ggggaaggcc aagccggcgg 60
cggcgctcgg gagcccgtag tacggcccg accgcgtgct gtacctgggc ccactgtccg 120
gcgagccgcc gagctacctg acgggcgagt tcccggggcga ctacggctgg gacaccgcgg 180
ggctgtcggc ggacccgtag acgttcgcca agaaccggga gctggagggtg atccactccc 240
gctggggccat gctgggcgag ctccggtgag tcttcccgga gctgctcgcc cgcaacggcg 300
tcaagttcgg cgaggccgtg tgggtcaagg ccggctcaca gatcttcagc gaggggtggac 360
tggactacct cgggaacccg agcctcatcc ac 392

<210> 16556

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A5

<400> 16556

caactgttctc agcttccgct cgctggtgtc ccctctctct caccgatggc ttcggctgag 60
gcggtagctc aggtggggac ttacttcttg cggaactact ataacctgct gcaagagacc 120
cccgatgtct tccaccagtt ctacagcgaa gccagcacca tgggtccgct cgacgacctc 180
acctgcaaca atactgcac acagagctgt ccttcagcca ttgggaagcc gacagcatgt 240
gatggcactg gcaccgtgct cgaactgacg gtgacgcacg acctgccttg ctgtgaggag 300

tattttttgta gtttatatatt gtacgatgag tgttcttcct ggaaaagagg ggaccaatgt 360

<210> 16557

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A6

<400> 16557

cggacgcgtg ggccgacggc aactggatca cattcatgaa gttaaggcta gacagggctc 60

tacaagacca gttcgacgca gaatcagttg aagaggcatt ggcttctaac cctgttgagt 120

tgaaatttga gaagcctgag aaatggacag ctccgtaccc taaatatggg tttggatggg 180

gggaaccctt ctgcctcca aagttcagca atggtagcgc atagagataa gcagcaatcc 240

ctatgaggca tgtaagatta ctcccctgta agtgatgaat gtaattttaa ttttgatgat 300

gaggatgtag tacttgaggt tgtaccagta cagttagttg aattagttgc acagtttttg 360

taatacaaaa taatcagctg ttttaattt 389

<210> 16558

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A7

<400> 16558

attcttttct gcagttagct gtatactctg gttgacctca tgcagtcttc tcacagtcct 60

ctgggcactc ctcatgctc tatttgcaac tgtgctccat gcaagcttca gaacaccaaaa 120

tctgaaagca cgtctgaata cattcagaga ggaattccgg gctgtctggc ggaattatag 180

tgagctttta ggtctcattt gtttctctca tgttcattgt ggtaaggaaa ggtgtctagt 240

gcagaaacgt ccatgctgtt tgtgagttgc actaggagat ctagttgaag gtgaaacgcc 300

attggacact actacatgga ttatgggaag tgggatttgg gttccgttgg ccgaatgcga 360

tgttatgcct tagcacgtga ttcctcaaga acaataaatt ttc 403

<210> 16559

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A8

<400> 16559

gtctccgtct ccgccgccgc cgttgccgct ctctccac ccctcaccgg ccgccggtcg 60
ccgccggcat ctgcgtacc gcagatttgc cgcagaagaa tcagatccaa accccgtatc 120
ttctcttctt cccctcctt cccattgtc ccgccgctg ccatggccac cggcggcgcc 180
gccccaccg ctttcgatgc cgggtccaag aagaagttgc tcatctttga ctccgaggag 240
gatctctcgg tttctctggc gaagtacact gcggagctgt cggagaagtt cgcggccgag 300
aggggtgcct ttaccgccgt gctctctggc ggatccctca tcgaggcact caggaagctg 360
acggagccgc cgtacctgga ttcagtggac tggagca 397

<210> 16560

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A9

<400> 16560

cggcgacggc gccgcgcacg gccagaagaa gcccgctctt tccgcgcgcc gctcctccat 60
cctcggcgcc ggcacgggag ccgccgccgt cctcgtcgac ctctcgcgcc cggcgccgc 120
cggggagtte cgcgtcgacg gctccttccc gcgdcgctgc tgccgcgtcg tggcctccgc 180
cagggcctgg gccgcgcccg tcgccaagga ggaggaggag gaggaggagg acgtggtggt 240
ggcggacgtc aggcggaagg tggacgagga cgcgcacgtc atgatgggac gggacgtctt 300
cgtgctctgg gtgcgcgccg ggttcgacgc cgccttcgcc atggggatcg tgctcgttct 360
cgaccggggt accgggggac acgtcgacgg cgacctgcgg gggggcgccct cgggg 415

<210> 16561

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-B10

<400> 16561

cccaagcgtc cgctctttac gattctgctg atgacgaacc tacaagcatt aacaaggaaa 60
 tcctcggatc aagtgatggc atggttacct aatacagcaa catcagcaga gtacagagta 120
 tcgaagatcc tggaacact ggaacaaatg actttgcgcc aattatcgtc gacgaactga 180
 caacaagctc aaatggatta gcacgaatga acgttgaacc attgactgta agctcaaattg 240
 agttcacgcc accgaacgcc atgccaatgg tagctcgtct agtcgagaat ggggtcaaccg 300
 gatacagcgc acaggacact cagcagcgtt ctcagaattc agcgcccaaa gctgcaaattc 360
 acgcgaacca aactggatct cagaacaaca gc . 392

<210> 16562

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-B2

<400> 16562

aagacacgtg ggtaaaacaa catttgtgtct acagtataaa cccagttaca tagctgctgg 60
 ttccctttat ctggctgcaa agcttcacaa tatcaagctt cccttgcatg gagcgcatgt 120
 ttggtggcac caatttgatg ttgcacaaa gcctctggaa gccgtcattc atcaaatgat 180
 ggagcttgcg gctttgaaaa agttgatgcc tgctcgacct aatccggtta agctgaagga 240
 aactttatgt gaagctaaac tgagcttatt taatagccca gactctgtgt tgaatcaatc 300
 aaacttggtta ataagcagct caagtcgga tattggcgag cccagtgaca aaatgcaggt 360
 ggattcctgc caagacttga gaagcaatcc catgggtgaa 400

<210> 16563

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-B3

<400> 16563

ctcttcatac ccgcctcttc acctcaactc acattgtcat ggctcgtct tccttctctt 60
 cctctccatc tcggcggttg gtccacctca cacaccatct cgtctcctct tcttcggcg 120
 agctttctct agtcggcgcc ccgcgcgtg gcgcctcagt atccgacccc atggattgcc 180

cacgctccac tgcctcaciaa gttcacgcat cgggtgctgga ctgcagcttc caggatccta 240
 tgcataaggte tctgttcatg ctttctgggc actctttgcc atcctcttca cgatccggtt 300
 aggtgtc 307

<210> 16564

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-B4

<400> 16564

gtctggcctc gtcgtcctct ggacgacttt tctcccgtct tccacaaccc cgagtcacca 60
 acccacccag gcgttgccga atccacctgc aactgcaagc ccacgaaatc gagccgagcc 120
 ccgacgccac caaatcgtgt ggctcggag atcgagcagg gtctggaaga accaggggag 180
 agaccgtcag aagaggagga ccagcagcag gcaggcgggtg gtggcgaagt cgtcggcgctc 240
 agcggccggg gtatctacga tgataacccg gtcgaagctg gtggagcagc tgctcgacta 300
 ccagatccga tcgcagcaca agcgtgacgt tatcggagct atatcatggg gcttgttgtg 360
 ttgttttctg ataatatcat cgtgcatgac g 391

<210> 16565

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-B5

<400> 16565

gtctcttata gcaaagcaat agagctatag tagaagacca cgtttggttg aaggccatac 60
 cctagaagct atttgaaatt ggagaaaaag gttggctaca gttggaccgt cagactgtac 120
 ataactgaat tttgttattc agttctgaga actgagttac agcaggatgc ctactttgga 180
 attcatttgt cactgattcg tggggttttg gttgaacttt tccataacat ctctagagac 240
 caccataaaa ataagttttg taaagttatg tggacttggg tccacatgaa ttttgggata 300
 acaatgggcc aaaaaggga ccaactttcat cacacggagt ggggctttct accgt 355

<210> 16566

<211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-B6

 <400> 16566

 cggacgcgtg gggacgagga gatggagatc gacctcgacc tcgacgacat caacgacgtc 60
 ttccccggaga tgccccggctg tgacctcggc cgcggcatgg acgacttcct gcaaaccgtt 120
 gattttctgcg tgtgaattga aagggagtggt gcccttgata tgttaggggtt gtttggtttc 180
 ataaacgagc ccctgagagt gtgcttgaa aggggagatg agatatcttg ggttttttcc 240
 ccgggcaagt tggatctgct cgtgcccagg agatttcctc tttgcgaac acaccaccat 300
 tagcggcccg agagaggtaa ttttggtagg ttatattatg ttttaaggat agtgcctaag 360
 tgtttgcttt gttatttgggt aatgcttgtc aaagacattg tagtggacaa at 412

<210> 16567
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-B7

 <400> 16567

 ggggtgaagc ccgtgcagtc accgggtccg ttcctcgccg gtatggagcc gagataccaa 60
 tcggtgtcca gggaggacat actcggggag cccctaacca aggaagaggt ctccgaactc 120
 gtgaaaggga gcctcaaadc caaacggcaa ctcaatatgg gcagggatgg tttgacacac 180
 aatatgttgg agaacattca ttcacattgg aagaggaaaa gagtttgcaa gataaagtgc 240
 aaaggtgtct gtacaataga tatggataat atctgccatc agctagagga aaaagttgga 300
 ggaaaagtaa tacaccgcca agggggtgtc atatttcttt ttcgtggtag aaactacaat 360
 tacaggaccc gcccatgttt 380

<210> 16568
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-B8

<400> 16568

accacggctc cggtagaaca aaaaaccacg tcacaacatg tttcggcttc gagaaacctt 60
ccagaggccg atccttagtt ctgagcccca aattgatgaa catcaaatac acccaaatac 120
tcaatttggt atcttcgctt ctgacgggtc atgggagcac ctcagcaatc atgaagcact 180
tgaccttgct caaagtactc gacacaatgg aattgctccg acacgaatga aagcggccat 240
gcacgaacct gccagaaga aggagatgag atactcatac ctcataaga tcgacgctcg 300
tgtgagaagg caattcgaag acgatatgac ggtcctcatg gtactccttg agtttaatgc 360
catgac 366

<210> 16569

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-B9

<400> 16569

cccacgcgtc cgcccacgcg tccgcccacg cgcccgctag tgtattgaat tacatatggt 60
gtttttgttg ttttatttat cacttctcct gtattcctat attttatatg tctaagtttt 120
taagggtgatt tcatgcaacc cttgtacaag caattgatac aaataaattg caccttttat 180
gatc 184

<210> 16570

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-013-Q1-E1-C1

<400> 16570

cggacgcgtg ggcttctact cgcactatct ctttgccagt ggtgccgcac acatcggagc 60
aatgttcacc gcgttctctg cgggtggcgag tgccctgggc acccgcgcgc ttttcgctgc 120
catggttctt tcattcctct cgaacctcat gggcgggacc acccactacg gcacgggtc 180
tgctcccgtc ttctacggcg cggggtatgt cccattggct cagtgggtggg gctatgggtt 240
tgtcatctcc gttgtaaaca tcatcatctg gctcgggggtg ggccggttct ggtggaagat 300

aatcgggctg tggtagcag agagcagcac attaactgcg acatcccttt tgtttttctg 360
 ttgttttttt gtcnagtggg gggaggaaaa ctatttcttg aaatt 405

<210> 16571
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-C10

<400> 16571

ggcgaggcgg tgtggttcaa ggcgggctcc cagatcttca gcgagggcgg gctggactac 60
 ctcggaacc cgagcctggt ccacgcgcag agcatcctgg ccatctgggc gtgccagggtg 120
 gtgctcatgg gcgccgtcga ggggtaccgc gtcgccggcg gcccgctcgg agagggtggtc 180
 gacccgctgt accctggcgg cagcttcgac ccgctcgggc tcgccgacga cccggaggcg 240
 ttcgccgagc tcaagggtgaa ggagattaag aacggccgcc tcgctatggt ctccatgttc 300
 ggcttcttcg tgcaggctat cgtcaccggc aaggggcccc tcgagaacct cgccgaccac 360
 atcgccgacc ccgtcaacaa caacgcctgg gcttaagcca ccaac 405

<210> 16572
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-C11

<400> 16572

cattacggtg ttgcacactt tggtagccag tttgctaata gtatacgttt ttatgctatt 60
 ttaggggaat tgtttcttct gtagagggtc ttgttctggt aattgggtgt ttggtgaagt 120
 tggtagccga tttctccacc tttttctcga tgcatactct gagagtttac gttcctagct 180
 acgagagcta cggacgaatg tggccacaca tgcacacgag gatcatcgcg gctctgatgg 240
 tttaccagac caccatgatt ggcttcatct ccctgaagaa gttcgcctaa gcctccgttc 300
 tcgtgcccct gcttccatcc agcataatct tcgcctacgt ctgccacatg cgcctctacc 360
 cggcggttcg caagactccc ct 382

<210> 16573
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-C12

 <400> 16573

 cggaagcgtg ggcggacgcg tgggcggacg cgtggggctcg ccggctgatt tttttttcct 60
 tcagcagccg caagctcgag cttcattctt cctctgtgcg ctgatcgatc cttatcccgc 120
 cgcccttccc tgagattttt caggcgccac cgcccttggg ctctacaaa tctcctctgc 180
 cgggtgctcca attcacgaaa tcgcgttctt gtgcttccca gctgagttct agccatgggtg 240
 ccggctcgagt tcttccccag cttcttcttc tagctcgccc agccgaagtt ccatggcgct 300
 cctctctgcc ggcgttctcc ccagccgcgc tctggcgctg acctccgctc ggccgcgcgc 360
 tccctccctg cccag 375

<210> 16574
 <211> 212
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-C4

 <400> 16574

 cggacgcgtg ggaaaaacaa aacaaaaaaaa aacaataaaa aaaaaaaaaa aaaaacgaaa 60
 aacaataaaa aagaatcaaa aaaaaaaaaa caaaaaaaaa aaacaaaagg gcagaccgca 120
 aaaaggaagc aaacaattga atttcgcagg caagcaacct tggcggtctc tcgcggcggc 180
 taacttgatc tctcctcgg cccgtcgcat tc 212

<210> 16575
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-C5

 <400> 16575

 cagacacatg ggcggccgca tgggtcatcc actacgtcct atccacggca tcatcgctca 60
 ccagcactgg aggtctccga gtattcatgg cgccttgacc atcggccgca tcatcagcag 120

ccatcacaat cgccagccag atagtcgcac aacagcattc acaaagaccc ttgatgcct 180
aacaccatac agtcgagtct ttccgcccttg tcaactccacg actagcatac tccctactga 240
gaagattaag cctcagaccc cagactactg cattcatcca ggaggat 287

<210> 16576

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-C6

<400> 16576

agaatacaag gaagtttcaa atatttatga tcagatgcaa agagctggtc tgaaaccaga 60
tggtgtgagc tattccctgc tcatcaaagc ttatgggaaa gccagaaggc aagaagaggc 120
attggcgggtt tttgaagaga tgcttgatgc tggagtcagg ccgacacgca aatcatataa 180
cattttgctt gatgcatttg caatatctgg attagtagag gaggctaata cagttttcaa 240
ggcaatgaga agacacaggc ttgagcctga cctttgctct tatacaacta tggctcttagc 300
ttatgtaaat gcatctgaaa tgaatggagc tgagaaattc tttcgtagga ttaaagagga 360
tggtctgaag cccaacg 377

<210> 16577

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-C7

<400> 16577

agggaggaat tgtacattga ttaccatgt gcaatacagt ttccggtctc aataagatca 60
atactagttt gttgttacag gcagcaggct ggccatgcgt gaatcatgac cgatgcagcg 120
cttcagggtc ctttacaaca cgcatgcac tagctttcca cagcaaaca ctggcggcgg 180
cggcggcagc agcaggatg ctgatgcacc acgtgctagt ggaacttgag gctggtgagc 240
acgttggtgt tgacgggggc agcgagggtg tcgagcaggt tctggaacgg gccgacgccg 300
gtgacgagcc cctggatgaa gtaaccgatg atggcgagca tggcgagcct gccgttcttg 360
atctc 365

<210> 16578
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-C8

 <400> 16578

 gtccacgtac gcctctgaca ccgttttgcc gtgtgggtcat gggtagtctg caccagggat 60
 ttcctctgca gggctaccct gcgtatgcac taacagtact ttttccacca atggcttata 120
 ctcatcctcg atcggcatat catcggtccat ctgagggata accaccataa tgtgggtacc 180
 gtcatccagt ttgctacaca cctcaagggtg gatatcatca tgcacgtac tctggcacat 240
 cacaacaccg ttatggtaac aaccgccacg gacgccacgt aggcaacatt cag 293

<210> 16579
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-C9

 <400> 16579

 gacaggtcgt gctcatgggc gccgtcgagg gctaccgcat cgcggggggc ccgctcggcg 60
 aggtcgtcga cccgctctat cccggcggca gcttcgaccc gctcggcctc gccgacgacc 120
 ccgaggcctt cgctgagctc aagggtgaagg agctcaagaa cggcgcgctc gccatgttct 180
 ccatgttcgg attcttcgtc caggccatcg tcaccgggaa gggcccgtc gagaacctcg 240
 ctgaccacat tgccgacccc gtcaacaaca acgcttgggc ctacgccacc aacttcgtcc 300
 ccggcaagtg agggaggcgc cgcgggtgac ctttaggtgt ccggatgcat gtgagcgcac 360
 gctgggttttc ggtttgttcc atgaggttaa ctattgttc 399

<210> 16580
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-D10

 <400> 16580

aacatgttat caatggaaaa ccggttgaaa ttaagagaac gatccctaag ggagctgctc 60
 ctttgaaaga tttcaagacg aagaagatTT ttggttggtg attaccctca gctctaaaag 120
 aagatgaatt caaggaattc ttttccaagt ttgggaaggt tgtggagcat gaaatcatcc 180
 gtgaccatgc aaccaaacgg tcacgtggat ttggttttat agtctttgat gcagaaaaag 240
 cagtacatga tttattacat acaaagggca atatgattga tctaaatggg tctcaggtgg 300
 agatcaagaa ggcagaacca aagaaacct ctaatcaacc acctcggtca cttgatagtg 360
 agcctagggg ccgtccatat gcagacagtt atgatggatt tg 402

<210> 16581
 <211> 160
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-013-Q1-E1-D12
 <400> 16581

gcgtccgcac atatgtccgc ggacgcgtgg gcagacgtgt gggtcgccat gccaagtgca 60
 gctgggtcatc tgaaggagtg ctcaagaacc agcaatTTTC gtgggtgcac gacactctgg 120
 gagataagct tctgcattta catgatgcat tttgcatggt 160

<210> 16582
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-013-Q1-E1-D2
 <400> 16582

cctttcatcc catttcgtct ggccgtctaa tccgttggaac ggcccgttct gtgcgtggta 60
 gcgctatgat ctgctctgaa ggagttttga gaagcataca tggatccgaa agttgctcct 120
 gtcaagaatg ttgatgccaa ggtcaaagtc ttggatgtgg ccaaggctgt catgtttgag 180
 gcaggcaagg agaagagcaa ggtcattcgt acatctgtcg cagttcacca gatcacaata 240
 ctaaatatcg ccaaggatac gaagttatca cgcttcaata ctactgtcat caacatactc 300
 gatcagtatc atatcctcaa atatcctctc aacacataat ct 342

<210> 16583
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D3

<400> 16583

```
gctggctcgca ggagcgctac tggttggttt cgtagggggg tttggggcgg ccggatacgt   60
gtacaaggac cagatcaaca ctttcctcac gcagttctca gggttcattg acggctatgg   120
tccagccgga tatgctctgt tcgtacttgt atatgcagga ttggaggttc tcgctattcc   180
cgcaatacct ttaaccatgt cagctgggtct attatgttgg agtgtgaccg gtacaattat   240
tgtttcaatc agtggaaacac tagctgcagc ggtggccttc cttattgcta gatacttcgc   300
cagagagaga attcttaaat tggttgaagg aaataagaag tttctggcaa ttgataaagc   360
aataggtgaa aatggattca aggttgtcac                                     390
```

<210> 16584
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D4

<400> 16584

```
ggtcgctcca ttattccagt ggcaaggaaa cagcagagtt tctgatcgaa cccgagatca   60
ccctgaagct gatgatggcc gcaaactacc tggacacttg atgaggagcc tgagggatct   120
aaccctagga accgttttgg tgtgaaattt gaaaaggtaa tgtaaacggt atccgataac   180
actgtaaatt ttaaaaagta agctattact tggattgttt gggttcagcgt aagagattat   240
gttgtggctt aaacaaacac gctccaacgt aatcagttac tgttgtaatc aaaaacaaaa   300
aaaacaacaa aaaactaaaa acaaatcgaa caaagaaaaa aggataaaag aaaacatttt   360
cgaaaaaaaa aaaggggggc                                     380
```

<210> 16585
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D5

<400> 16585

aagtcaactg ctgaacatgc aatacaacat ccattcttca atgtgtgcaa ttgggtagca 60
aaagctgtac atgatgctta ccatacagaa tcaactccgcc ctaatgctga gccaaagattg 120
gaactgaacc tgtgggatct cagcacagaa cctgatgatt gtgtccctga tttatctctc 180
agtctcaatc cacgtttttc tggaacagac attggtaagc atgttccacg acatacataa 240
gatgaattac tcctgtaccc gggatatgag aatacccccg taaagtccgg tttttggcct 300
ctggtgccat ccgatcatcc cgttggatgat attccggcca taccatcctt gcaacaggcc 360
tacatggctg acagcccaag ggcatattct g 391

<210> 16586

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D6

<400> 16586

atccggtggt gctgatgttc tgggcggact ggaaccagcc aagcaaggcc acgtactggg 60
atctggccat cgctaaaaag gatgaggccg tattctgcc a gctggacttt gataagttta 120
aagatgtcgt agagaagttc agagtgaagg ctctgccgac gttcctcctg atcaaggagg 180
gcgaggagca gcgcagggtc gtcggtgcca aggtcgagga gctcaacatg gcattatcag 240
atatcggata atctaggcag ctatagcgt cacattcgaa cttcatcaaa ttattctaatt 300
aaattaataa gctggaaata agtcttaaaa atacaaatgg ctaattaatg cattttcgat 360
ttacaaagat tgaaattcaa gaaaatgtgt attaattata tcatatacaa ctactacaca 420
t 421

<210> 16587

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D7

<400> 16587

atgaacacct gggttttcaga cagccgccgg tgtttctgtt tgacctcctt gtaattttaa 60

atatatatct agacattttc gcaaaacaaa tcacaaggaa aaaaaaaga aaaaagacaa 120
 aaaaaaaaaa aacagatggt ga 142

<210> 16588

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D8

<400> 16588

cccacgcgtc cggaacgata agctgattga attacagagg gtgaccagag atgagaattc 60
 tcggctgaga gagatgctga agcatgcggt gggcgaagct aatgtagcaa gagaatcgct 120
 ggagattgcc agagtggaga attctcgcct taacgaagag atgtttaaga aagagagtac 180
 cttgcagagt atcaaccaag aatatgaatc cctcaagatc agcgaggcag ccgcacagag 240
 tagcattaaa gaattgaagg atatgattga tgctatgttc agttctgagt cgacaaaaac 300
 gtcagcagaa gcatcacctc gtgaggccaa gggaagcaag atgaaggaaa cttctgtggc 360
 agcaga 366

<210> 16589

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D9

<400> 16589

aaagagttgg ttgaacggat gggctcttga aagtcacctt caaatgttga acctcctgaa 60
 tttggtgctg cagctgatgg agatgctgac cgcaacatga ttctgggttaa aagattcttt 120
 gtgacaccat cggactctgt tgccattata gcggccaatg ctgttcaatc aattccttac 180
 tttgcttctg gcctgaaggg agttgccagg agcatgccaa catcagctgc ccttgatgtt 240
 gttgcaaaga atttgaatct caagttcttt gaggtgccta ctgggtggaa attttttggg 300
 aatttgatgg atgctggaat gtgctcaatc tgtggtgaag aaagctttgg cactgggtct 360
 gaccacattc gtgagaaaga tggcatctgg gctg 394

<210> 16590
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-E10

 <400> 16590

 ggggtcgggtcc acgcgtccga ccaagcgtcc gcgaacggga tatgagctgt cagatatgga 60
 tatactgttt gctgagggga ttacatcctc agatggggta gcatcaactg acttctcttt 120
 ccctcagctg tcgttgggtg gactgggtgt tgatgacctc gatgcacaag acactttgct 180
 aaggtagcag ttgatcagga tatacagtag aggtttgcat gggaactgca aatgggtgca 240
 catgttcgat gacgttaggc ttgttagctt ctgtgttget gctagcgact acgatgagta 300
 ctccgaagat gcaaacggta tcattgt 327

<210> 16591
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-E11

 <400> 16591

 cccacgcgtc cgctgcggcg tagccgtcgc ttggacgcgg tccagagcgg ttgcaccgcg 60
 ctgtccatcg tcaagcaggg ggacctcatg gtcgtcgcca acgtcggcga ctcccagacc 120
 gtgctgggca ccacgtacgg cgatggcacc atcgtggccg tccagctcac cgtcgacctg 180
 aagcccaatc tgccacagga gaaggagcgt atccggcggt gcaacggcca ggtgtactgc 240
 ctgcgccgatg agcccggggg gcaccgcgtg tggcagccca gccgggagtc gccggggctc 300
 gccatgtcac gcgcgttcgg cgactactgc gtcaaggact gcggcgctcat ctcgacgccg 360
 gaagtgcgcg 370

<210> 16592
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-E2

 <400> 16592

cacacgcgtc cgcccacgcg tccgaaagct taaacgagag aactacaagg cactgcctgc 60
 atcgggtcca tgtaaatgct tcgcccgatg acgacgactt ccgctcgtcg cgtaacatag 120
 cgatcagttt gttcaagcgg tacaagaatg tcattgaccg aggaggtgga gaaaacctaa 180
 atgagtttgt cagtgcctga gtgaccgctt acgcactagg gtgtacagat gaggggctta 240
 gaaaggaact tatggatatt gaagattctg gtctggagat tgaaggctta cggtccttgg 300
 ggggcaccag cctgaagtgc aaagtccact cctttgagat tcgtgagtgc attctgtggc 360
 tcagtaaagt gttcgtcaca atactgtgca caccacaact 400

<210> 16593

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-E4

<400> 16593

ctgggggaaa gtcctgtcg gattcatgca cctacaagga gctcgagaac ggcgtcctgt 60
 gggaggtcaa gggaaagtgg gtcacccaag gtccgtgtga tgtggacatt ggtgccaatc 120
 catccgccga ggggtggtgag gacgaaagcg ttgatgacac agctgtgaag gtggttgata 180
 ttgttgacac attccgtcta caggagcaac ctccctttga caagaaatca tttgtgtcat 240
 acatcaagag atacatcaag aatctcactg ctgtgttgga gccagataaa ggggctgagt 300
 tcacaaatgg tgtcgaggga gcaaccaagt ttctccttac caagctgaag gacctccaat 360
 ttggtgttg 369

<210> 16594

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-E5

<400> 16594

gtgtctgcgg tcgccgtgga ggcgccggag ctgcacttgg gccggaatgc cgtggacttg 60
 agccttctcg tgaaggagtc ctcgaaaaag agccagcaag gggagcgtgt caggcagtgg 120
 cacatggcgt tcccactagc cggttaaggcc aaggcgggcg agctcgtcgt caagctggcg 180

ttccagatca tggatgacgg aggcgctcggg ctgtacagcc aaccgcccgt tgcagcttca 240
ggcaaaacta gtcctctctc gtccctcctcc ttgtttgcac ggaaacatag caagtcgctcg 300
ttcagcatcc cgagcccca ggtgatgcgc tcggagccgg cgctgatacc atccatggga 360
gcgccatcgg tggacttgct aggaatcgac gatttcaagc tcgattagc 409

<210> 16595

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-E6

<400> 16595

cccacgcgtc cgcgagcgcg tgggggagca cgtggcagtg tttagttcga cttttgacaa 60
gtaagttgtg gttccaggtc tcatcaactg cacaatgaaa taggcacagg atactttatg 120
tgtcagctac gtgcaatttg gtgcaagact agcacaggaa catggagttt cttcagtgtt 180
gtccgtatac ctcttccatc tggtccttga catcacagca gaggaccatc cattggactg 240
tcatgttttt gcgacttcgt tgagcagctg tctgttgatg tttcactgac agtctcaggc 300
tgggtgcagag ccaagtgctt aacatccata ttgtcctgt gatgagttat gaccatggtt 360
ccaagaacca tctcagcaat attgccatag ttctgacaca agtgtggggg gaggcct 416

<210> 16596

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-E8

<400> 16596

cccacgcgtc cgagtttagca agggtcgtgc tgtcgacaag ctgattcaag cactggccaa 60
caacaacggg aaggcacagg atttctgat gtgcgtcggc aacgacagat ctgacgagga 120
catgttcgaa tgcataacg gtatggcctc caacgatgtc tcatcgacca cagtaccgga 180
ggtgtttgcc tgttcggctg gccagaagcc cagcaaagca aaatactatg tggacgacac 240
cagcgaagtg atcagattgc tcagggatgc aaccgccttc tcatcgctgc agcggaggga 300
ggacgtcaac gccagccgcg ggcgtgtgac cttcagagac gcactcgatt acgtggacta 360

ggcaccagca gcaattctta gttactcgaa atgattagct gcggagcttg taaattccgc 420
tgt 423

<210> 16597
<211> 377
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-013-Q1-E1-E9
<400> 16597

cataagcatc atgctcctga cgaagcagct agagccaggt accaaaagaa ggtttctaac 60
ataatcgatg acgttcttga atggctccg aagttagcta tttctggaat gattgagaag 120
cacactgggg ctaacattac agaagaaagc aattacacca ccagggcggc gagtagtcac 180
atgcctccat ccaccgaagg gaaagcttca gaagatatgg acgttgatgg ggataccgag 240
gctagcttag atgaaacca agataatgaa tatgctgatg atacaagatc aagcggagct 300
taaaatcaga gttttttttg tttgagcaat ctttgttgtt gtgaatctgc agaattatat 360
agatagctta ctgctgg 377

<210> 16598
<211> 352
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-013-Q1-E1-F1
<400> 16598

aacacgcgtc cgatgcttgc agctagttct ctagtgaaca gcaacctgc ttgctcaaca 60
aggatatcat cctgttcaga cttcacatat agccactcct ggcgctcat acatgccatg 120
atactccatc agatgcgtgc tgtgagctca agacgtataa gttgtgctgc cactaaacct 180
gcaaagactc ctgctgaaga acaatggaca gttatgcggt aactgctatc ataaacgcgg 240
gtacgaagtg tcgatgtgaa cgaagcactg cgccttcata aggaatacaa gtttgtcatt 300
cgtggtgtca ggccataagc acagtttaaa gacgctcatc cacctggcgc ca 352

<210> 16599
<211> 397

<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F10

<400> 16599

ccccaacgaa gtgcgagcga cccacgtcca caccacacga accaccacca ccaaccagca 60
gccgcaccac gcaccagcg caaagcgatg gcgtcgctca ccatgatggc gtccttcgcc 120
gccgtggcgg tggccgcgcc ctgcgcgccg ggcaccttcg ccgtgggtcag gtccgccaag 180
gtcgaccgct gccaggagcc cgccacgcta gcagcaaccg aggccaggcc cgccgccgac 240
ggacgccgcg ccgtcatgct cgcggtgct gcggcgcccg tggcagccat cggcgggcgc 300
ggcgccgcca tggcgggccc caagaacggg acccccgagg cgaagaagaa gtacgcggcc 360
atctgcgtca ccatgccac cgccaaggtc tgccaca 397

<210> 16600
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F12

<400> 16600

ggcaactttg ccaaggttta ccatgctcgt aacacggcga ctcggaaag tgtcgcgatc 60
aaagtgattg ataaggagaa gggtatgaag gttggtctca ttgatcaaatt ccagcgagaa 120
atctctgtga tgaagcttgt taggcatcca aacatcgtag agctctatga ggtcatggcc 180
acaaaaacca aaatatactt tgtgctggaa catgttaaag gtggagagct gttcaacaag 240
attcagcgag gaaggctcaa ggaagacgca gcgaggaagt acttcagca gttgatctgt 300
gcggtggact tctgccacag caggggtgtc tatcatcgag atttgaagcc agaaaatctt 360
ttgctcgatg agaatagcaa cctgaacgta tc 392

<210> 16601
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F2

<400> 16601

accacgcgtc cgcagattca gatcagatcg tagcagccaa ggattccgcg ctccgggggt 60
gccatgaagc tgaagctcct ctctccctgc cttctcgtec tcgccttctt tgccaccgcg 120
gcgtacgcgg cgteggcgtc ggcgtcgcgc gcggcgggcg tcgtcagggg cgcgggcgcc 180
ccgtcgcagt cggagttgga gtcggacccg gagaaccagt gcgtgtacac ggtgtacgtg 240
cggacggggg ccatctggaa gggcggcacg gactcgacca tcggcgtagac gctgctgggc 300
cccacgggca cgggcatccg gatccgggac ctggcggggg gggcgggcct catgggcgcc 360
ggccacgact actacgagcg cgggaacctg gacatcctca accggcgggg ggcct 415

<210> 16602

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F4

<400> 16602

cgcgcttggt tgttcgcgtc ttctccctgt agggaaactcc gttaccgggc cccggctgtg 60
cgtggcgta gcacgccccg cgggcaggag ggtgaggctg ctgagcgtga ggtgcgagca 120
gggagccaag ggcggtgggc ggctggacgt gtggctgagc cgcggggcga tgctgggctt 180
cgtcggagcg gtggccgtgg agctgaccac cgggaaaggc gtgcttcaga atgtgggatt 240
gaccgcgcgc gtgccgacgc tggcgctggc gtcaccggc gcggtcggcg tcctcacggc 300
cttcctcacc ttccagtcgg ggacgcggga ctgatgggtg aattgtcaaa gctcccaaaa 360
ggacatgcat aaagtctgtc agagtccgtg gccgtgta 398

<210> 16603

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F5

<400> 16603

accacgcgtc cgccagcaact ctaactcagg ggacacgac gccatggccg ccacatcgac 60
cgccgccgcc gtgtgtgccc cgcggtccgt ggccgggctc cgcttgggcg cgtctcccgg 120
ccgggcgcgc gtgtcgttcc gcggggcgcc ggccggcgcg cggcggtccg tggcggcgcg 180

cgcgagctg agctcggcgc tggatgacag cctgagcacg ggcgtgtcgc tcttcctggg 240
 ccgcttcgtc ttcttcaact tccagcggga gaacgtggcg aagcatgtgc ccgcgcagaa 300
 cggcaagacg cacttcgacg ccggcgacga ggcgcgcaag gagttcgcgg ccctgctcaa 360
 gtccaacgac cccgtgggct tcaaactcgt cgaagtcctc ccccgggggg 410

<210> 16604

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F6

<400> 16604

cgcgggcccg cccaggggtca ggctcaccgg cctggggggcg tccatggagg cgctcgaggc 60
 gacggggaag cgcctctccg acttcgccga cacgctcggc ctgcccttcg agttctgcgc 120
 cgtcgacgag aaggctcgga acgttgaccc gcagaagctg ggcgtcacgc ggcgggaggc 180
 cgtcgccgtc cactggctgc accactcgct ttacgacgtg accggctccg actccaacac 240
 gctccggctc atccaaaggc tggcccccaa ggtgggtgacg atgggtggagc aggacctgag 300
 ccagtcgggg tcgttcctgg cgcgcttcgt ggacgccatc cactactact cggcgctgtt 360
 cgactcgctg gacgcgagct acggcgagga cagccccgag 400

<210> 16605

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F7

<400> 16605

caaatcagag agacaggaaa agaaaaaaga attttgatca aatcaataga aggaaggatc 60
 ccttacctga tttgaatttc atcctccttt aaataggata tgctctaagt ctcccatcac 120
 tttcctataa tgactgcaac gattttctcc attttgcgaa ttcttatttt atttgaagta 180
 tattactatc atatacatc tttaaatcga tccactttaa ataaaataga aaaaatcgaa 240
 agaaaaaaaa aaagaaagag taaataataa aacaggatat tctgtttcat aattctgaaa 300
 tagagttctt ttttttagta ttactcctca ttaggatgta tatattaatc atcctatttt 360

aatatatatt aatcatccta ttttaattag gttctaattcc aa

402

<210> 16606

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F9

<400> 16606

gtctgggaga tcccggactt cttcgggtga agaaaatcac catgacatcc agacagtctt 60
gaccaacggg gacacttctt ccaatggagc tgacaattca ggtcccacca aggatactga 120
gtagctgaac tgcagcttgc tgcacgcta accacaaagg cccaagttat tactttttgc 180
agacctatct tcagttctag cccctccctt cccatttcga ttttgtttgt taagtcctcc 240
cgatctgtat ttattaactt gcatgatgcg ggtcaccgaa gacttaggct gctgcagaag 300
ttttgtctct ggcggaagc tatatgcaag aggggtggtac cgggttcgttc ccagaaatct 360
atgtgcttgt taacctgaag gccgagaaag gcgaaa 396

<210> 16607

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-G2

<400> 16607

cccacacgtc cgctatgcca ttttattcat tgcttatttg acatggctta tatacaaatt 60
tacaaatctt ctactctact cccaccattc caaattgcaa gatgttttag cttttctaga 120
catcttttgc tatgtactta gatatacact atatttaa atacatagtaaa agcaacgtag 180
caggaaaaac caacaatttg gaacggaggg agtatatggt tttcatgtcc agctgtttat 240
cttctattaa gctcagtcac aacactgttt gtacgagctc ccaatcactc cacaaatctg 300
taaagtagcc tgggctagtt ttccttctga ctgacctga tttctcctta gacatgcaga 360
tgtgactggt tgcgttttt 379

<210> 16608

<211> 388

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-013-Q1-E1-G4
 <400> 16608
 acagcacaga gtagagtaag catccgaaaa aagctgtgat ctgatcgaca tggcgcgcgc 60
 caccatggct ctcacctccc gcgcgctcgt cggcaagccg gcgaccagca ccagggacgt 120
 cttcggcgag gggcgcatca ccatgcgcaa gactgctggc aagcccaagc cagcggcgctc 180
 cggcagcccc tggtaacggg cgcaccgcgt cctgtacctg ggcccgtgt cgggccagcc 240
 cccaagctac ctgaccggcg agttccccgg cgactacggc tgggacaccg cggggctgtc 300
 cgccgaccgc gagactttcg ccaagaaccg cgagctggag gtgatccact gccgctgggc 360
 catgctgggc gcgctcgggt gcgtgttc 388

<210> 16609
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-013-Q1-E1-G5
 <400> 16609
 cccacgcgtc cgggggaatg gggggacgat gaggaggtgg tggcggcgaa gaaaccgagc 60
 gggaagaccg aagaggagaa ggtagcggag gcggcggaga tcggctacaa ggtgttgga 120
 ccgctcgagg ctgacgataa acccttcaag ccctacgagc ccgtcttcgc cgtcgtacag 180
 atcggtcgc accaattcaa ggtgagcaat ggcgactcca tcttcacgga gaggttgaag 240
 ttctgtgatg tgaatgacaa gttggtctta aaccgagttc tcatgcttgg ttcacaagct 300
 caaacagtta ttgggaggcc aatactacct gatgctgctg ttcattgctgt tgtagaagaa 360
 catgccttaa attccaa 377

<210> 16610
 <211> 106
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-013-Q1-E1-G6
 <400> 16610

cagaggctcg taagaatgca caggcagcta tcctctcagt ggtatgcaag tcgcgacgac 60
 tgatcacagc tcacgacctc tccctcctca ggctacgtga caatgc 106

<210> 16611
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-G7

<400> 16611

cccacgcgtc cgcccacgcg tccgctgatg aagaagtgag aaatgccaca gggatttcaa 60
 atgtcatggt ggctgaacat ccactgaagc tcagtagttc atatgccatg ttaaagggaa 120
 attcaaacaa taggggtctt catggtgaac ccttggcaac ttcctaccac aagaagtttc 180
 ttggaactgt tgattacctg tggcacactc atggaattga atgtccaga gttttggaca 240
 cgttacctat tagtgttttg aagagaacga ggggtcttcc aaccagggaa attggcagtg 300
 atcatttgcc cattgttgct gaatttgctt tcacggaatc agttgaagat gattccgatg 360
 aagatgatga atctgagcaa gatgacgaat ctaagaaatg agcgaaac 408

<210> 16612
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-G8

<400> 16612

cccacgcgtc cgggagaatc gtcgaatgag agcaattggt tgtctttgcc atggttatgg 60
 agacacatgt accttttttc ttgatggagt tgcgaggaag attgcttcag ctggatatgg 120
 agtatattgca ctggactacc ctggctttgg tctttcagaa ggacttcacg gatataattcc 180
 aagttttgat acacttggtg atgatgtagc tgaacacttc tctaaggtca aaggaaatcc 240
 tgaatataga ggcctaccga gctttctgtt tggccaatct atgggtggag cagttgcatt 300
 gaaggttcac ttcaagcaac caaatgaatg gaatggtgca atactggtgg caccgatgtg 360
 caagatagca gacgatgtg 379

<210> 16613
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-G9

 <400> 16613

 cagaaatcca tcgacgaaca actgagaaga gctgcgcctg cgctgcgcc tgcgggaaag 60
 ggagaacatg gtggggaaga agaggggtgt tatctcccgc ctggaccatc tcgctgggct 120
 gctggaggtg cgcgtggtga ggggagtgga cctcgccatc cgcgacctcc gatccagcga 180
 cccctacgtc gtccttcgca tcggcaaggc gcagaaagtg aagacgcgag tggtaagaa 240
 gagcatcaat ccggaatgga acgaaaaact caccctctct attgaagacc ctgccgttcc 300
 tattagactg gaagtatttg acaaggacac ttctgttgat gatgcaatgg gtaacgcgga 360
 gctggacatc cgcccgttag tcgagattgt gaaga 395

<210> 16614
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-H1

 <400> 16614

 tcgcggttcg acgcaagcct ctacagtgcg ccgatcagc atcgaaccag cacatcgcaa 60
 gacaagcagc agcagccacc actgccatca catggagtac gccgccgtcg gctacggcta 120
 cgggtacggg tacgacgagc gccaggagcc ggcggagtcc gcggacggcg gcggcgggcg 180
 cgacgacgag tacgcgacgg tgctgtcggc gccaccaag cggccggcgg gcgggaccaa 240
 gttccgggag acgcggcacc ccgtgtaccg cggcgtgcgg cggcgcgggc ccgcggggcg 300
 ctgggtgtgc gaggtccgag agcccaacaa gaagtcgcgc atctgggtcg gcaccttcgc 360
 ccccccgat gccgccgcgc gcgcgcacga cgtggccgag ctggccctgc ggggccgcgc 420
 cccgtgcctc a 431

<210> 16615
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-H10

<400> 16615

cacaaacgtc cgcgagcgcg tgggtttttt ttttttttcc aaaatgcatc aatatataag 60
taccaaaaaa gtgtcgcaag cacagtctgc acacatcata caacacagat caaactcaaa 120
cagcactaca gaaattcgta tgctgcgtct gcatcactgg atgaagcgca aagctagcaa 180
ttcggcttac tcccatcaag accaaacaac taagcagcca tacgcaacgt aatgcacagg 240
tggcaaactg gtgtcacac ccacaagcgc tgccccctc cggagaaact cgaaccgggt 300
ttgctaccat tccctactaa catggacctc gaatcacttg catctagtgc ttcattgtct 360
tcccaagacc cctgggtact ttgtcaga 389

<210> 16616

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-H11

<400> 16616

cccacgcgtc cgacgcata ctgcatacac aacacagagc atcagaagga gctgcgatct 60
gatcgacatg gctgccgcca ccatggctat cacctcccgc gcgctcatcg gcaagccggc 120
ggctggcacg agggacgtct tcggcgaggg ccgcatacc atgcgcaaga ccgccgcca 180
gcccagccg gcggcgctcg gcagcccctg gtacgggtgc gaccgcgtcc tgtacctggg 240
cccgtgtcc ggctcgcccc cgagctacct gaccggcgag tccccggcg actacgggtg 300
ggacaccgcg gggctgtcgg cggacccgga gaccttcgcc aagaaccgcg agctggaggt 360
gatccactgc cgctgggcca tgctcggcgc gct 393

<210> 16617

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-H2

<400> 16617

gggtcgagca cgcgtccggg cttattgatc atgccgtett cgctcgctga ccaccaccgt 60

ctcgctcgtc gagcatatag ccatgccatg gtacgcacat gctcaaaggg atagataggt 120
ccagtgaag cgcgaggga tcgtcatcca cggaggggtgg tggcgcggtg gccacatcca 180
tgcgatgccg gttcacgttg tcgctcctcg ccgtgccggc ggtggccgct gggttcctgc 240
atgcgttcca gttcgcgttc ctgctgtggg ccttcaacct ggcgctgccg ctggcgcgcc 300
acctgccgga cgcgtgcatc gcgttccgct gggtcgcgtc cttgtacgga gccgaactgc 360
ggaggtagcg tggcgccgcc gtccgggccc ccatgcccct gtcttagacc ccgaa 415

<210> 16618

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-H4

<400> 16618

acgctgtgca atgcgtgcgg cgtccgctac aagtcggggc ggctcctgcc cgagtaccgc 60
ccggcggtgca gcccacctt cgtgagcagc atccactcca actcccatcg caaggctctc 120
gagatgcgcc gcaagaaggc gggcgacatg gtcgccaccg ccgcgccggc cgtggcgctc 180
ttctgagctg cactcgctgt cagcaaggac gctggccacc cagcgggtggc tgtacatttt 240
ttttttcttg ccataatggc cctgtaccgt acctgaactc tcctcccctc actcactcta 300
gtgtgggtcgt tgta 314

<210> 16619

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-013-Q1-E1-H5

<400> 16619

cgcgccatcg tctcagtgtc acagcaggaa gccgcgctcc cgcccgcggt gccgcacgcc 60
cgccagccgt tagctgtctc caacagcggc gggatcaggg cttgcgattt ggcagacgcg 120
agtccccca ccccccggc cgcttacttc atgcctccat ggatccggtc ggggacccgt 180
cgccgtcgcg gcgggtccctg aagcggaggc cgccggcgcg gtcgccggag ctgtcgccca 240

agtcgggtcc gggggcagga gaggcggcgg cggaggggct gatccggcgg gtagaggagc 300
 tggaggcggc ggcggcggc ctgcgcgggg agaaggangc ggcggaggac ggcggcggg 360
 gcctg 365

<210> 16620

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-H6

<400> 16620

aagaaggaga cacacaatcg tcgcctgctt aaccagagcg acaatgccca agctcaggct 60
 catcatcacc gttattcttg tgggtgtctct actgttcagt ggtgtgtctt caggacaaac 120
 tgcagctaca caagccagcg atgcagatct ttctgaagcg gttgaggttg agagacgcag 180
 tgggaaggtt ctgacgtacg ttcaggacta cgactacggc gggccaacc ccaaactga 240
 cccacgcacg aagccaggga gcggacacc tccataggta gcccaaggata aacgtccggt 300
 gacgtccag ccaactggact ctgctgttac ctaactagtc ttgctgagtt gttcctgtaa 360
 tgagtagaaa g 371

<210> 16621

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-A10

<400> 16621

caatgggcta cgagaaggct ctcttcacaa ccatagcatt ggaattcgaa gatgttgac 60
 atgaaacacc ccgcgacccc ctgcagagta tgttgaagat gtctgtaa atgtcaagt 120
 tgtagattca agtttccctg aaactttgag gtataaccaa ggacatgtaa ttggtaaatt 180
 gtttgtattc ttcgttgaca tgcacaagca gtttgtggc aaa 223

<210> 16622

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-A11

<400> 16622

cactaacatc atgcatcctt tgagtgaggc aatgactttg ctgtcaactt ctcacgatgc 60
gcttccacaa atctattttg ttactgatgg gtcagttgat gatgaacgga atatctgcca 120
ttcattgaaa actcaactta ttaaaagtgg atctaagtct cctcggattt ctacttttgg 180
gtacagttca tattgcaacc actattttctt gaggatgttg gcatcaattg gtaaggggtca 240
ctatgctgct gcatttgata caggatcaat tgagggtcga atgcttcaat ggttccagaa 300
agcttcaagc actatagtgt caaatgtttc cattgatgcc ataaagcata ttcaagattt 360
tgaagtggat tctgtatata ttccagacat ttcagcaaaa tatccattgt gtgtt 415

<210> 16623

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-A4

<400> 16623

aaaacaaact tgaggctctt ctgcaggttc ttgagccaag cttggcaaag ggaaacaaag 60
ttatgggtgtt ctgtaatact ttaaattcaa gtcgtgcagt ggatcatttt ttaactgaaa 120
atcatatata cactgttaac tatcatggag aggttccagc tgaagagaga gttgagaacc 180
tgaacaagtt ccgcaatgaa gagggggatt gtccaacatt agtatgcact gatctggcag 240
ctagaggcct ggacctggat gttgaccatg tcatcatggt tgacttccca tcgaattcta 300
ttgattacct tcacagaacc gggagaactg cacgcatggg agccaaaggg aaagttacaa 360
gcattgtggc taagaaagac g 381

<210> 16624

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-A5

<400> 16624

cccacgcttc cgggtgtgtg gcgtgctggg cgtgatgggt ggagtggggc actgtaaccg 60

ggatacatat acactgtctt gtggaggggg aaaggggaatg cataatggga attatcaata 120
 taattcttct cgttcctttc atc 143

<210> 16625

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-A6

<400> 16625

gtccaagcag tccctctcct acctcgatgg cacgctgccc ggcgactatg gcttcgaccc 60
 gctggggcctc tcggacccgg agggcaccgg gggcttcacg gagcccaagt ggctggccta 120
 cggcgaggtg atcaacggcc gctacgccat gctggggcgg gtggggcgca tcgccccgga 180
 gatcttcggc acgatgggca tcatcccgcc ggagaccggc ctgccgtggg tcaagacggg 240
 cgtcatcccg cccgcgggca cctacaacta ctggaccgac tcctacaagc tcttcgtctt 300
 caacatggcg ctcatgggct tcgccgagca gcgccgctc caggactggg taaagccggg 360
 gtccatgggg aagca 375

<210> 16626

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-A7

<400> 16626

ggaccctgtc agcctttctg gccagctcgt tgacagcttc tcggaggcgg tatatagcaa 60
 aaagcggacg ccttctgggt tctgcatgga cctgtggcat tgaagcacca caagcaccta 120
 ccgtttgctt tgtagggagc acacattcgg gccattctt ttgttgaga tcgttgcat 180
 gattcttcat tggcaatttc gctgaagtat ttgacttgca catcttcatt gaaacttaac 240
 ttttcaatga cagtagttta agttaatggg caatcacttt tttctttttt ccgttcttta 300
 catttgctcc atagtaggtt accgtgctat catctgtacc gtccatgtta accttagagc 360
 atcaatgagc cgcacgttc ggtcagcctg aggcacgtg ggttttgtg 409

<210> 16627

<211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-014-Q1-E1-A8

 <400> 16627

 gaaaagatca aatcagcatt agaagctgag aaggaaaaaa tatcagaagg aagagaagac 60
 ggcgatggag gaggagatgg agaagctgag gcggcagcaa gcagaggccg cgcgcatgga 120
 gaaggagaag gaacgggaga agagagctaa gcagcagcaa caggttgcta tgcccggcct 180
 gaagaagggt gcgacttatt tgaggcccaa gagaatgggt ctgtacataa gacctgatat 240
 aacttaactg tctccggtga ttttggtact acgctgaggg aacttgtaat gtgtagcctg 300
 ctcaagcagc atgtaaaaca acacgtcaat gtgaatgtat acaacatcga catgtgaaaa 360
 aatgaaaaga aaaatagagt gttgtcgc 387

<210> 16628
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-014-Q1-E1-A9

 <400> 16628

 cccacgcgtc cgcccacgcg tccggtgacg atgcgcaaga cggcggggaa ggccaagccg 60
 gcggcggcgt ccgggagccc gtggtacggc cccgaccgcg tgctgtacct gggcccactg 120
 tccggcgagc cgccgagcta cctgacgggc gagttcccgg gcgactacgg ctgggacacc 180
 gcggggctgt cggcggaccc ggagacgttc gccagaacc gggagctgga ggtgatccac 240
 tcccgtggg ccattgctggg cgcgctcggc tgcgtcttcc cggagctgct cggccgcaac 300
 ggcgtaagt tcggcgaagc cgtgtggttc aaggccggct ccagatcgt cagcgatggc 360
 ggactggact acctcgggaa tccgagcctc agccacgcgc agagcatcct cggcatct 418

<210> 16629
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-014-Q1-E1-B1

<400> 16629

cacacgcatac cgcggacgcg tgcgcggacg cctgggctga cgcgtcgctg gtgggaagta 60
cagcgttgcc tgggtactgt cggaggagct gcaatgtgtg ctagggtcag gacgtgagag 120
tagtagtatt tgtagtgca tacgacttgt ctccatagtc tgtagttggt ctctacatc 180
tcgcagtaca gaaatactcc catgctatag gttatgccga tggagggtgca cttagaatca 240
gccgactact tggtcgattg atttactaca ttgcctggct ctgccatctc ataagttgta 300
ccgggagctt acaacatctc tgatccgttg tcatctgtaa gattttc 347

<210> 16630

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B10

<400> 16630

aaaactctag ctatggcgca tgtccaattc acagattgca cgaccactgc caaggatatg 60
catatcttct ggtctaactg gcgaggagat gatgatgttc atcaacgcct tcccagaaac 120
cgggctggaa gcatctgcct ttgctgcgct tgtccctaac agtgcagata atgttctcgg 180
cgaagtgatc gaggaaataa tgggagacca tgagatgctg acaggaaaag actccagatg 240
agaagaattt gaagcacgga catgcctatc atgaaaattg tcaatttgca ttctgatata 300
tggcatctaa atctgattca aattgctgca acaggaagct gggatatggaa aagactgggt 360
aagatagtgt tgcacaagaa acatcagttt aatttttcct ctgataa 407

<210> 16631

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B11

<400> 16631

gcggtggcga taaggaagca ccttgagagg aacaggaagg acaaagactc taaattcagg 60
ctcattcttg tggagagcag gatccaccgc cttgcccgct actacaagcg cacaaagaag 120
ctccaccca cctggaagta tgagtcaacc acagcgagca ctctggtggc ctaagtgtgg 180

tatcctccga cagcttggtc tagatatgaa tttgtgtaat gcttattatg gctcgagccg 240
gttaaagtga caacggacct catctttttt tatgtttacc ttgagaatcc cgtaaaccat 300
tttgggtttc tgaattgtct gttaaactga acatgcatat gttttgaagc ctaggggtgag 360
cttttacttc accatcacta aggaa 385

<210> 16632

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B12

<400> 16632

aaagtctgag cctgagctgc cccagtggaa gagctccgcc atcgccgacc tcggcgtggg 60
caccgagaac aagatcgcca tgcacttcga caggggtcttt tggcccaacg tcgaggtgct 120
gggaatggtc gggccgacgc ccaaagcctg tgggtacttc ctgaacctgc acaaagccac 180
cggcaatccg gtcctcgtgt acatggccgc cggaagggtc gccaggagg tggagaagct 240
gtcggacaag gaagccgtcg gcctggctgt ttctcacctg aagaagatgc tcccggatgc 300
cactgaaccg acgcagtacc tgggtgctcg atggggctcc gaccccaact ccctggggtc 360
ctactcgtgc gacctggctg cgaagccggc cga 393

<210> 16633

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B2

<400> 16633

catgttttca ctataaagga acccctggag gggggagtaa cgggtgtagaa ggtttatgtt 60
gtcacagttg gcatgcattc atataggaat agctagctga tggcacggtt atgccaacac 120
agttataaca aatatcaatt gttaaattta tgattgggta tcgactaagc aaaacaattt 180
tataagaaat tgttgtgctg caatatcctt tgactaaacc ttagtcagat gctcgaatat 240
tgctatgggt tgtaaataata atatatcata tttatagatt ttgttgtaat 290

<210> 16634

<211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-014-Q1-E1-B3

 <400> 16634

 cgccaacgcg tccggccttc cctacagcaa ctgcatacat acaacacttc catctgcccc 60
 ctctgtcttcg atcaattccc aagtcaaata atataacagc aatgggtggtt cccgtgatcg 120
 acttctccaa gctggacggc gctgagaggg ccgaaaccct ggcgagatc gccaatggct 180
 gcgacgagtg gggattcttc cagctcgtga accacggcat cccgctggag ctgctcgagc 240
 gcgtcaagaa ggtgtgctcc gacagctacc gcctccggga ggccgggttc aaggcgctcg 300
 agccggtgcg cacactggag gcgctcgtcg acgcgagcg gcgcggtgag gtggtggcgc 360
 cggtggacga cctggactgg gaggacat 388

<210> 16635
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-014-Q1-E1-B4

 <400> 16635

 cacagcccca cagtcgcccc ttcggacttc cctttattcc ccttcctata taatcccatc 60
 gccactgcct tcttcttcgc cttccaactt ccgttccgca aatcgaaagc tcggcggttc 120
 cctgcctcga gtcgaagga ctttgtccct ttacgtcgtt gtccagctcc tcgcatattg 180
 tggcctggtg cagattggag atccgcccgg acttggatcg agtcctcctg tctttggaca 240
 ttcattggag tgctccattc attgaggcag catgcctaag ataaagacaa gccgtgtcaa 300
 gtatcctgaa ggatgggagc ttattgaacc aacaatccgt gagttggatg ccaaaatgag 360
 agaagctgaa aatgatccac atgatgggaa gagaaagtgt gaagctctct ggccatttt 419

<210> 16636
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-014-Q1-E1-B5

<400> 16636

cccacgcgtc cgcgcgagat ctccgatccc cgcccaaata ccacgacgcc ggcggcgggc 60
atggggcgga aggacctgac ggaggaccag atcgctcga tgcgggaggc cttctcgctg 120
ttcgacacgg acggggacgg ccgcacgcgc ccctcggagc tgggcgtcct catgcgctcc 180
cttggcgga accccacgca ggcgcagctc cgggacatcg cggcgcagga gaagctcacc 240
gcacccttcg acttcccgcg cttcctcgac ctcatgcgcg cccatctcaa gcccgagccc 300
ttcgaccgcc cgctccgcga cgccttcgt gtctcgcaca aggacgggtc cggcaccgtc 360
gccgtcgccg acctccgcca cgtcctcacc tccatcggcg agaagctcga gg 412

<210> 16637

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B6

<400> 16637

accacgcgtc cggtaaacaa ccagcccat atctacctcg caaccatatg ggcaggcggc 60
ctttcatgtc taaaccagtc taccacttg tcttcggaa tctgtctca gaatcagaag 120
cgtgcacgat gcttgagggt ggtaatgccg ggcgagcgac accaagtgat gacagccaag 180
cttctcctct gtggcgctgc agcttggcga gcctagatct caagttccac aatgcaccga 240
atgaacttgg gaagatggaa acctcaccg aaccgaacac aagctcaaga agggaagggt 300
tcagatgggg caacgccatc agttatgact ttggatacga tggagatgcc attgacattt 360
cagatcat 368

<210> 16638

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B7

<400> 16638

actcgttggc ttcgtaaggga tgatcctcca ctccggcaag tatgaaagtg gcgatcggct 60
gtgtcctgaa catgagaagg cgattctgga acgtttgctt ccataccatc cacaatataa 120

tgagaaaatt ggggtgtgga ttgactacat cacggtaggg ttacatccag aattcgaaaa 180
 ctcaaggtgt ttattcatat ttaggaagga tggcgagcag atcgattttt cgttctggaa 240
 gtgcgtaaaa ggtctcattc ggcaaaagta ccccatgtac gcggacagtt tcattctcag 300
 gcatttccgc aagacacaag actactgaag tagttgctcg tacggctgtt tcagtgttat 360
 atttttctgt gtaattgatt ttgtcctgtc ccctttc 397

<210> 16639

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B8

<400> 16639

accacgcgtc cgcggacgcg tgggcacggg tcaagcacat cgacacacac gagcacagaa 60
 gagaaacggg cacacgcaac tgatcaaggc aggcaaccaa tattcacgtt cggcaatggg 120
 cgacctgata cctgggctgc cggatgaagt ggcgagggag tgacctgtcc ggggtgggctt 180
 cgaccagctg ccgggtgtgc gccgcatttc gcgccagtgg aagtccggcg ctgggacccg 240
 gagacgtggg cgccgacgga cgcggtgttc gtctacgact tctgtcggg cgcgtggcgg 300
 cgcggcgcgc ccatgcccg cccgcgcagg tcctttcttcg cctgcgcggc cgtgggcggc 360
 gccgtgtacg tggccggcgg ccacgacgcc gagaagaacg cgctgcgctc ggcgctg 417

<210> 16640

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B9

<400> 16640

aacacgcgtc cggccagctt ctctgcaccg tgttgctagc ctggataacc tgcataagag 60
 gatcttcggg gatgcaatgt attccgggac tgcgtcaact acattctcag atcatgaagc 120
 tcttgccgat aggtaaaggt tgctcctgtt ctgtcctgtg atgaacagcc gtgtgatgct 180
 ctagcgggtc aagtgtcttc ggtaatggaa gttgtagcac ccatgcgcct gtgtggggtc 240
 tacacagtga tttgtacact attttaaacg ttaataataa ttgttgacaa atgatctcat 300

ccctttgtac ctatataagt aaagtattcc attaataaag acaatagagt tttcactc 358

<210> 16641
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C1

<400> 16641

gggtccacga cgcgtccgag cagcacactc agctatccaa cacaagatat cgagacgcag 60
gagtcatggc caccgtcagc gccgcggtgg tgaccaccat cgttgcccgc gccgcgatcg 120
ccaagcccaa tgcgctaggg ctgcctgcgc tgagggccac gagcgagagg gtgcggtgca 180
tctacgcaa ggacgcggcc ccaactcagca ccaatggcgc aagcgcgtct ctgctcgccg 240
caactggcgc ggtgactgcg tcggcggggc ccgcgctggc gctcgtggac gagcgcattg 300
ccacggaagg caccgggctg agcctcgggc tcagcaacaa cctgctgggg tggatcctcc 360
tgtgggtcct ctgcctcacc tggctcctct acacc 395

<210> 16642
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C10

<400> 16642

aaacctttgc aagattaata aaagaagaca ggaacaggca gctgataatg gaatcagtcc 60
tcacttgatg aattttgtca tgtcagactc acctctgagg cagtatgccc tgcctttgct 120
gtgtgatatg gctcatgctt ctgcgaactc tagacagcag ttgagggctc atggaggact 180
agatgcgtac ttaaatctgt tggaagatga tgtatgggcy tgcacggcat tagattctat 240
tgctgtatgt ttggctcacg ataattgatca tagaagagtg gagcaggcac tgttgaaaaa 300
acaggcactt caaaagttag tgaagttctt ccaagactgc acagaacact attttgtcca 360
tatattggac tctttcgtga acattagaat gaaatcttct aagcgaaaca cagca 415

<210> 16643
<211> 394
<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C11

<400> 16643

caaggacccc gcctcaagcg cccctcgggc cgccccacg gccgcctcga cgtccgcgtc 60
gccgtcaagg agccgtccag gtactacgac cccaaccct acccgcccc cgcggcctac 120
gccaacacgg gcggcggcac ccgtgacccc tacggctcgt ccgtgctgc tgccggcggc 180
tactacggct ccggagggcg ataccgttcc ggtgggtggc cctacggtgg cggcgcctac 240
tgcgccgcac atccctatac cgcagcgccc cggcgaggat acccttccac ctactgcgcc 300
gctccgccc ctcagccagc ggcagagtac ggcgctcctc ctgcgctgc atacggtgct 360
cctcctgtcg ccgccaacgc cgcgtccggg accg 394

<210> 16644

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C2

<400> 16644

gggtccacgc ccgcgtccgc atacaagtcc gccacgcgt ccgaggagct gaacgacagg 60
aagaggctgg ccaccagtgg cgccaacttt gcgcgcgcct acaccgtgga gttcggcagc 120
tgccagtccc cctacaactt cactgggtgc caggacctcg ccaaccagac gaggggtccc 180
ttcatcagcg acgacctcga gattgagtgc gaggggaatg agaagttcaa gtgcggctcc 240
aacgttttct ggaagtgggtg aagcatctag cagcagcgtc tgatgggaat ggacgagatt 300
atcacctgtc atgtcgagcc gtaatatgtc cactctgcag ggaaattaaa tcgtcaggtg 360
taattgtgcc cagtctgttt caatcatctc aacaaccgag tcatgaacct cctgcatt 418

<210> 16645

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C3

<400> 16645

gcgtcgggga gaatcacatg aagtagccag caaagcaaag gtgagggatg atcatgccaa 60
 ttgcaaactc aatgaggtac accaaagctc tgaatcagag aaagataagc aacttggtacc 120
 agataacgca gcaacaacca atatgtcaga tgtacaacgt gaaaattctc atgtacagaa 180
 caatcagaag tacgaaatta tcaatgtgcc ttctgattct agggcacttc tagttttcat 240
 taacaagaga agtggggcac agagtgggtga ttactgaga cagcgtctgc aaattcttct 300
 taatcctgtg caagttttcg agttgagcaa acatcaaggt ccagatgttg gtttagcttt 360
 atttcggaag gtaaccatt tcagagttct tgtatgtggt ggagatggca ctgc 414

<210> 16646

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C4

<400> 16646

gggtccagcc cgcgtccggt tgaaggacca atgagcgtat aatcagacat ggatagtagc 60
 ttcatgcaag ttgtgcgac cgtaggtcgg tcattggcct tgttccagtg cctgccaca 120
 ttctgtacg cctactgcc gctgcgttg accgagatgc cttattttc tctttattat 180
 tgaaccctat ggtgtaaagt ttcacgattg tacatgtatg tcacacttgt attggcctat 240
 gcattagacg tctccattag ttacctata tgatcatcta aaatattgtt ttgcagtttt 300
 tatactgtag agtgaagttt gaatataaaa atgaggatgg tgctggatat agccttatag 360
 gcgcgcctg cagattaggt gccgcggtg agcttttgag ggccaggccg catatatatt 420
 aatacag 427

<210> 16647

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C5

<400> 16647

accacgcgtc cgcggacgcg tgggctgacg cgtgggcgga cgcgtgggcc gcggcggcgg 60
 cggggccctc tctctgcgg ctttcaccag cgccaagtcc cggactacgg gctacaacct 120

gcccgtcatc aataagcaaa aggagttcta caataatgcg aaactaatca gcagatacaa 180
 aacgacaagg aagcagcaat gtcagtcaaa cgaccatcca cacattccaa gccatgagga 240
 tgggtggcgac aatgcccac atgtaccgaa accgcactac cacggcaaga agcgcaccgc 300
 gcatagtttg aacgaacagt actagaagaa acgcgcacag gatgagaaag ctaacagaga 360
 ccaggatgca acaattcagg tgaagaggga acaccaggag aa 402

<210> 16648

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C6

<400> 16648

gagaaagcac ctctgatgat ttagctccga aagtggtttg ttgccaacaa aagcttttgg 60
 aaaacacagg agatgattcc tgtaaaactt tagagggtgt tcaagattca ggcgatatat 120
 tgtctgcgac tccacgtggt cttcagatgg cacacaatct atacccttat gacaacaaat 180
 tggataaacc agatttgaag aaggaagctt ttgctgatca atcttcagct cttgggaatc 240
 ctttaaaaaga ttttgttatt ccagagcaat cttacatctg gcagggtagc tttgaggtat 300
 caggacatgg aaactccctt gaaatgttca atgggtttca agcttacttg tctacttgtg 360
 cctcgtccaa agttcgtgaa gtaggtgaac aattacctga caaaattcag 410

<210> 16649

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C7

<400> 16649

aactgaccat tcatcagtac aagctgctta ctacatcggg gctcattgga cgtctcatta 60
 atgctaataca gcaccttttg gcccttcgca tctctgagta ccttaacctg aacccggagg 120
 ttgtgataat gcattgggca tgtgagaaga taacagcatc aacaactctt ccagatacag 180
 tccttcttga tgggtctgctt gataagctca ggctatgtaa agggatatca tatgctgcag 240
 tggcagctca tgcagataac agtggctcgac gaaggttggc tgcaatgctc gttgatcatg 300

agtcacagtc ctctaagcag atccccctgt tgctcagcat cgatgaacaa gacaaagcat 360
tatcaaaggc aattgaaagt ggcgataccg atcttgtgta ccttgtgcta ttcc 414

<210> 16650

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C8

<400> 16650

aacacgcgtc cgcccacgcg tccgcccacg cgtccgccc cgcgtccggc ggggcacaga 60
caggaagaga agccaatggc gctgtccctc tccctcgcgc gcccgcgcgc cctcgccgtt 120
tccgcccggc caggagccag gaagctaccc gcagccagcc tcgcattccc ggcgaaatcc 180
ttcttcggcg cgccgctggc cgccaccgcg gactccgtcg cgtcgccgct cccgcgcaag 240
ccggccacct ccaccacctc gctcgaggtc gtcgcggggg ggaagaaggc ctacaagatg 300
aagacgcaca atgcgtcggc gaagcgggtc cgggtgacgg ggacggggcaa gatcgtgcgg 360
cgggtgcgccg ggaagcagca cttgctcgcc aagaagaaca ccaagcgcaa gaag 414

<210> 16651

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C9

<400> 16651

aacacctggg aagtatgcgt acaatgaaca aacaagacaa acaattacag aatcaggtcc 60
tgatggggct gtagttcttg ggactccagt tgcacctcct gtaaattggg acatgtatac 120
tgatatcagt cctgagaatg cgggtgctgca aggacagagg agattaagca aaggcgtgga 180
ttaacttggtt gaagcatcag cagcagaggc ggaggcaatc agtgctacat tagctgctgt 240
gaaggccacg cagggttaatg gtgagatgga gcagttgcc gacaaggagc agtctccaga 300
ctccacatca actagcaaac attcaagcct catcaaactg gacactgctc tttctaacaa 360
cttggcagct ccacctgggg ttcggttgca ccatagagcc gtcgtggctg ctg 413

<210> 16652

<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D1

<400> 16652

gtcctagatt caggggtcga ggacgcgtcc gagacaaatc actggaaagt atgtgtgacc 60
tcaaaagatt gcataggaat accttgggga aagagaaaaga tggaagcagg gttgaaaaga 120
gaaagaaaaa atcagctaag caagagaaac attcaagaaa tggttaaaca gcggttttgc 180
cccagacagc tgacccggtt tttgttgatc cacgaagtca agatcaatat tttgctgcag 240
aagatattgc atcagaccaa tctgttggtg gacctttctt ctaccagga tatcccatga 300
ctgttggttc aacaagccag attcaggggc atacgaatat gcaatctgag cctcagtgtg 360
catctcaaga atattctgct tatggcacag tgtcagccac cagcaaaatt tgggtggtggg 420
aaaaaattcc gaaaggg 437

<210> 16653
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D10

<400> 16653

gagccgctaa gcatcagtac tgggcatcca cccagccga tgacactctc tgcctctctc 60
tccgtccctg ctcatctccc gcgcgcttgc ttgcttcctt acccagctcg gccttcagct 120
cgtcgagtcc ctccccgctg cgcccttgcc ggttctctgc tcggccatgg aaatcgcaac 180
ccccagcttc ctctgtcgag tccggccgga gctccctcct gctttgctcg tcggctgcgc 240
gagctagccg gcgtgctcct gctccagcct taacgcgcgc gcctgctctc tctgtccggc 300
caccctcgcc ccacctctct cctttgtcgg cgtctctgtc agtctctctc atggccgcgc 360
ctggtcctta cttgagctcg gctctgcctt ccactccagc tcgt 404

<210> 16654
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D11

<400> 16654

aacacgcgtc cgtgccgagt ctgtaccagt acgacgactc aggccagaac acacggcgta 60
tggatatgga cacagcaagg ccgtgttggt gctgtaagtt ttgtaatttc tgtttccttc 120
tcggcttcgc agcatgcagt tgctgtatat gatggaagaa cactctgtta ctgggcatgt 180
tgcgcgggtt ccacgcgtgt aagtaatgta aaagtcgcta tggtaggtat ttccataaccg 240
tcattagtgg atcattgatt ttttttttgt aagaagggtta ttgcaatgcc ctttttcggg 300
gcatgaataa gaaaaaggaa atatgcttat atgcatggta tg 342

<210> 16655

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D12

<400> 16655

gacatcggtc atgtcacaca tgtctagcta cgagagtggc gcattgcctt ctgcagttcg 60
tcaagtgcgt ttgtgtgttc ttgtttgctt ttagttgcga ctaggctgta gatccttctt 120
gtatcacaac aatatatgta ctgctactgt accggccccg gcctcttggt taatctgaaa 180
tgctcattgt at 192

<210> 16656

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D3

<400> 16656

acgcttgtag tgccggctct agattagcgg gtccacgccc gcgtccgaaa cgaagaactg 60
aaaatatcaa tatttcgggc atctgccgtt gccgtaaaaa agaatgaaca ttgaaaatcc 120
aagatcatca catcactcta gctcacctca ctgagatgaa taacacgtag ctgacaaaac 180
ggcaacaatg ctatagtaca tacttccaca ggttcaaatt gatccacaaa caaatctgca 240
aaaggggggg cccctcaaaa aggtcccaat gttt 274

<210> 16657

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D4

<400> 16657

aacacgcgtc cgcccacgcg tccgtggcag acgatgttga tctagaagct atagctaact 60
tgacagaagg gtactcgggt agtgatctca agaatctttg tgttactgct gctcatcgtc 120
ctattaggga gattcttgaa aaggagaaga aggagagagc ttcagcagaa acagaaaata 180
ggccattgcc tctgtcgcac actagcaatg atgtccgtgc attaagaata agtgatttca 240
tacatgcgca tgaacagggtg tgtgcaagtg tttcctcaga ttccagtaac atgaacgagc. 300
ttgtgcaatg gaatgatctc tatggagaac gcgggtcaag gaaaaagaca acgctaagct 360
acttcatgta gctgatgttg caagtatatc gggagaaatg ccctggcaca aagcagaaat 420
g 421

<210> 16658

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D5

<400> 16658

acatttttca gtatatcttc ttcagatctg gtttcaaagt ggatgggtga aagcgagaaa 60
ttagtcgcaa atctttttcca aatggctcgt gaaaatgccc cttccattat ctttattgat 120
gaaattgatt ctttatgccc tcaacgtgga gaaggtaatg aaagtgaagc atctaggagg 180
attaagactg aacttcttgt gcaaatgcag ggtgttggtc ataatgatga taaagttctt 240
gttcttgctg ccacgaatac gccatatgct ctggaccagg ctgtgcggcg aagatttgac 300
aagcgtatct acattccgct acctgacacg aaagcaaggc agcatatgtt taagggtccat 360
ctcggggata caccacacag cttaactgaa ag 392

<210> 16659

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D6

<400> 16659

gtctctactc ctcttctctc tctctctact ctccaagttc tcttctccgt cgaccgctct 60
acacgtctct tgtcgacctg gacaccgagg tggaagaagg aagcagtcag cagatggatc 120
catggatcag cagccagcct tctctgagcc ttgacctgcg cgtcggcctg cgcgcgtca 180
gcctccacca ccaggcgccg gtggccgtcg ccttgcccag gccaagctg ctcgtcgagg 240
agaacttctt cctgcccgtt ccatagaacg aaccagaggt acgcatatat acactacact 300
ccgatcctat gtgcgacgca agcatggcac caccacacct ggactggacg gacacggcgg 360
gcgtgacgac gagcacagac tctaacggac tgtccccttg acttgatccc aagtcgc 417

<210> 16660

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D7

<400> 16660

acgagccgga aatatcaaga tttccggaat ccgcccgcgc cgccgccagg ctgaccaatg 60
gacctctccg tcgtgccatc cctctccctc tcttcgcgcc gtgcccttcc actcccggcc 120
aggagggcag cgcgcgcgtc ggccttcgtc tgccgctgca gttgctcccc ggacgcgtcc 180
ccggtggcca cccggcggtt gttcgctctc ctctcgcca ccgcagcagc ggtggggggt 240
ggcgtggccg gaggcggagg ggaagccggc gcggtgtcca cgagcaggag ggcgctcagg 300
gcgtccaaga ttctgagag cgaattcacc acctgcccc atggcctcaa gtactacgac 360
atcaagggtac gaagtggggc tgacgctgtt aaaggatccc gtgttgcggt aca 413

<210> 16661

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D8

<400> 16661

atctgccacc gacgaacagc accggttcta cggggagtcg aagccgttcg ggaacgactc 60
gtacaggctc gccgagacgc tgggctacct cacgtccacg caggcgctgg ccgacttcgc 120
cgtcgtcatc aggggcctga agcgggacct cggcgccgag gccgctcccg tcgtcgtctt 180
cggcggtccc tacggcggaa tgctggcttc ctggttcagg ctcaagtacc cccacgtcgc 240
cattggtgcc ctagcttctc ccgcgccgat cctgcagttc gaccacataa ctccgtggag 300
cagcttctac gacgccgtct cgcaggactt caagtccgag agctccaact gcttcggtgt 360
catcagggca gcctgggacg tcctgggatga gagggggggc acagacaaag ggctcctg 418

<210> 16662
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D9

<400> 16662

aggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtggggg acttcaagaa 60
cttcattcagc ctctgcctac agaagaacc ggtgaaccgt ccgtccgcga tgcggctgct 120
gcagcaccgc ttcgtggccc agccgcagcc gcagcccctg gccgccccgc cgtcatgatg 180
gctcgccgaa atccacaatt catgaccgat ttgattgatt gattgcttcc cgtcgtggta 240
caactgaacg cggcgggcgg attgatctct caccttgctc cctgaccttt ggggtggatg 300
gatggttggt tgcattgatt gttgtggatg gccatgagat gcggtacctg gagacgtccc 360
tcctaatact agctaggcat gcaagtggct caggac 396

<210> 16663
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E1

<400> 16663

gtccaggcac gcgtccggat gttacacatg atgatttata tgtacaagaa agctggtgac 60
tatgccaga ctcgtaagct atttgacac atgtcggaga gaggaattcc actatctaca 120
gtcactttta aaagcttggg gtcatttgcg acacaatata aggaagtttc aaatatttag 180

gatcagatgc aaagagctgg tctgaaacca tatgttgtga gctaatacccc gctcagcaaa 240
gcttatcgga aacccaggac ggaataacag gcattggagg tttttgaaga gatgcttgat 300
gctgcagtca ggcccacacg cacatcatatc aacatTTTTgc ttgatgcatt tgccagatcc 360
gg 362

<210> 16664

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E10

<400> 16664

cgtttagtcgt tgcttgtggc tgggacacca tatcatattc aagcttgata aggaaagtag 60
cttcagataa tgtgttcgtc atccagatcc aacacccacg atctcgcctt gatagggtttg 120
athtagtggt gactcctcgc catgattact atgctttaac cgctagtggg caacaagaag 180
ttccacacct gttccgcaga tggattactc cacaggaacc acccaggagt aatgtggtac 240
ttactgttgg tgcactacac caggctgatt ctgctgcgct acggcttgct gctatagcct 300
ggcatgatga actcgccctt ttgcctaagc cgttgctaata tgctcagcatt gggggcccca 360
ccaggaattg taaatatggt gtagatcttg ccaggcagct cataac 406

<210> 16665

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E11

<400> 16665

agtcaccca tcctccgaag ctctcggca gacaagcagc agcgagagaa agcaagcaag 60
gcagaggcag ttgtgttgct ggtcgggtccg tccatggggc ccaagagagc aatgtcggcg 120
gcgcgggcgg cgagacagcc gaggtgcgc ggcgtgcgga agcgggcgtg gggccggtac 180
gctgcggaga tccgcgaccc ggtgcggaag gcgcgcgtgt ggctgggcac cttcgacacg 240
tcggagcatg cgccccgggc gtacgacgcc gccgcgcgca agctccgcgg gcccggcgcc 300
gccaccaacg accccgcccc ggagccgacg gctgatgcgt tggcggacgc t 351

<210> 16666
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E12

<400> 16666

```
accacgcgtc cgcatggatg ctgaagatga attagatgct tatgcacagt atactgagaa 60
catagctgtg aaatctgctc gtcaatctga gagaaaagct aggagaacta gagcagcaat 120
aaaagctagc acaaccctcc atgcttcaca aaagggttga ttatcctcaa agaagaagcg 180
gtccaagggt tctctgtcta gtatgaatcc tttaggttcg ttgtggaaga tgaccggtag 240
gagacttctt acagccaagg aagaggttga attctcagaa ggtattcagg atcttttgaa 300
gcttgaggcg atccaagctg agcttataga gtacaatggc ggtcagccaa ccttctcgca 360
gtgggcaaca gcagctggag ttgatgaaaa aactttgcgc aagcgcttg 409
```

<210> 16667
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E2

<400> 16667

```
aagattctgg agctagaaga ctgatgaag aagcctggct atgtgcaaaa cactgttcag 60
aagaggcttg cagaagaggt gacgcgattt gttcatggcg aggagggatt ggaggaggca 120
ttgaaggcaa ccgaggcctt gagacctggt gctcagacac aattggatgc acaaacaatt 180
gaggggatag cagatgatgt gccttcatgc tctttagctt atgatcaagt gttcaagtct 240
ccacttattg atttggctgt ttccacaggt ttgctcacta gtaagtcagc agttaagcgg 300
cttattaagc aaggtgggtc gtacttgaat aacgtgagga ttgatagtga ggataagctg 360
gttgaggaag gtgatatagt tgatgggaag gtgctcttgt tgtctgctgg aaa 413
```

<210> 16668
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E3

<400> 16668

ggctctccga gtctccggtt cctcctctc ggcgccggt caggtccctc tccatctcag 60
gcgtagcgct tggcgctctga cctcaacaag caagacagca aatggcaagc tgcagggttg 120
cgcatgccac cctcaaaggc ccgagtgtgg tgaacgagat cttcattgga ctgaccctgg 180
gtctgatctc gggaggcatg ttgaagatgc accactggta ctatcacaag aagactaggt 240
ccttctaaga catgcttgac aacggccaaa tcagcgttgt cgtcgatgag taaagagttc 300
ttccactta ttttcagaga actctctcca taacatgac 339

<210> 16669

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E4

<400> 16669

acacgattga ggatggcaac aacaatggca tcgtggtgct cgtcacaagc cagaatgagg 60
gcgccgtcac cggggggcgc gccttcatcc aggccgtcgg cgaccagatt cgcgacgcga 120
ccgtgtcgga gaaccgccc ttcctcgca cggacgagaa gtacaacgag gcgatcttga 180
acacgggaaa ccggctggcg gcgccgatcg acgggctggc cggatactgg tggcccgtcc 240
ttcaaggaga acaatcggcg agtctacatt cgagagcaca gaagagaccg aggagaagcg 300
cgggcagttc aagctcgtcg tcggcgggct gctcgctac a 341

<210> 16670

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E5

<400> 16670

ctcagaagtc tggttcgccg aagattctcg agtccccgat tcaatgccgc tgetgctct 60
cgtcctcttc accaccgatg attttattct atgggacggg agcgcaatct atgcacagga 120
acttttacac tatccgaag cagctcgatc atctcatggc ggataaacgc aactgcgatg 180

tgcgtgaggt cattcgctcg tactatcatc ggcagctcta ccgcctctag ttcaccagac 240
 tctgcaccta ctaccacttc caacttacta agattgacat ggacccgtgc acgaaactga 300
 actcgctgta actg 314

<210> 16671

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E6

<400> 16671

accacgcgtc cgctcccaa ggccggctcg catcctccac tccaagctgc acttcggtct 60
 tctgctcctg ccaagtagcg acaccagcgc tgctccttct tttctctgtc ttggccagcc 120
 acctctgtc catcttccag cgtcgccac gaccggcagc gctcagcccg acctctctc 180
 agctcgccag ccacgcgat gaccgccgtt cccagtgtcg gcttctccag tccgccccgc 240
 ctcggtcatc gtcggtgata ctgcgcttac cggtgccga agctcgcgtc gccctctccc 300
 tcaccggatt cagtgtccga gctctcacta gagctcgtga cctcgccggc tccctagagc 360
 tcgcgctaac ctgctcgacc acacctcacc agcttgctcc aaacatgatt tc 412

<210> 16672

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E7

<400> 16672

gacaagccgc cgccgctctt ccacctacct ctccccggcc atcatgaagg cggcgcgcg 60
 cgagatcgcg gcgcgctta acaagatgaa gaaggagacc accgcggagc tggaggccaa 120
 gctggacgag gggcgagcc gtgtggacgc cgagctcgta gaggcgctcg ccaacctcga 180
 ggcgcagaac gaggaggctg ttaaggcgct cgacgccag atcgctcgc tcagtgatga 240
 gatcgtcaag aagggtgctc catccgctg atgaaacaa accggccctg ccttatacta 300
 cgactatagt tacatgaaca tcataaatta ctgataagtt tgaagaaatt ggccgatgac 360
 tccgacaacg tactcatcaa agattattgg atgggttggtg tccaccgcct gtg 413

<210> 16673
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E8

<400> 16673

```
accacgcgtc cgcggaacgc tgggcgagca ccacaagtat tcgtgctgct ttggtctttg 60
cgctcctggag cattaatttc ccttctgatt tgggtagagg atgatgcttc tcgccaagct 120
cggggcgcgc agcgttccag ggaagcgtcg agttgaagaa gatgctataa gttgcagaat 180
agaaacatac catggttggtg tcatggacag aaggaaactg ctggttggtcc ctgcgattag 240
tatggccatt gcctcctttc agtacacttt tgtcaaggga atagcaaaag ctgaatttgc 300
tgatatgcct gcacttcgcg gtaaagatta tggaaagaca aaaatgcggt atccagatta 360
cactgaaacg gaatcaggcc tccagtacaa ggacttgccg gttggtgatg ggccttc 417
```

<210> 16674
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F10

<400> 16674

```
aggacgcgtg ggcagcactc gccagtcgcc accccgatgc tactggtgcg cgcgccgcgc 60
tctcccgcgc cgctctcggc ggcggccaat ttcccggctg atctggagcg ccccttctgc 120
cttcgcggtc tgtcctcttc ccgtgccgac gttactacgg cactgccac ggcgaagccg 180
gcggttctct ccttgggcgc gcaaaagcgc aagcaggtga cgagcgtggc gaaccgcgtg 240
gtgaagcact gcgtcaagct ccggctctcc gccgcgtacc gacgctctg ccgccgcctc 300
ctcctcgctg gctcgcgcc tatcctggac gtgtgtagtt ttgagctcga agccatcgat 360
tacttgcttc tctggaccg cgt 383
```

<210> 16675
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F11

<400> 16675

gatgccccat tcaagcagtg gtacctcact cactatggag ttgacattgg taggaagaag 60
aaaaccctg ctgcaaagaa ggataatgct gagggacaag aggttgaggc agcagctgag 120
gaaacgaaaa agagcaacca tgtcacgagg aagcttgaga agcgcaagga gggacgtacc 180
cttgaccac acattgagga gcaatttggc agtggacggg tgctggcatg catttcttcc 240
cgccctgcac agtgtggccg agctgatggg tacatccttg agggtaaaga gcttgagttc 300
tacattaaga atctacagag gaagaacggc aacagcgctg taacttagag cattctcatg 360
gattgtcttg caccgaaatg tgtgtcctga tgagtacacc ttttttg 407

<210> 16676

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F12

<400> 16676

gcggccgccc tttttttttt tttttgatcc aaacagtctc ataataaatt gagaataggc 60
taagctggag agtgacgcaa accattcaat caatcatatc tcaattctca aaacttgag 120
ctgggggcta ccccgctaca ctcgaaactg atagaggtag gctgacatgg gagtgtccga 180
agttgttaat tttgctgtga gaaacgacaa ttgagacggc ctactgactg aacgttgctg 240
cgaggaacat gtctctctcg ctcccaatcc acccgactg gccgcagcgc tcgccggcac 300
ggcagcactc ggggggcacg ccgcccggca tcttcccggt cgtcaattga gcaccggcga 360
cggcgtggac agcct 375

<210> 16677

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F4

<400> 16677

ccgttcctag atttgccggg ccaggcccg cgtccgagtc ctgaaccggg acgcgccgct 60

cttcateccg gcggcgctgc tgcaggtgga ggactttctcg ccgcagtggt gggacctcat 120
caccaccact gcctgggtcc gcgagcactg gtcccgcgag cgcgcccacc tggaccagat 180
ggccgatcag atcgacgcgg ccggcctcct ccccgaacgac gaggacctct tctacgacga 240
ccagctcgag caagggcccc tcgcccgcgc ccttaggaca gattcggtgc ccaaggcgcg 300
gaacatgacc tccccgaagg gcggcggcga cgctcgcggg gggttccggg acaaagccag 360
gaagcccagag aagccgacta agtactccgg cagccccaag agcagcgctc cccgcgtgat 420
caaca 425

<210> 16678

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F5

<400> 16678

aacacgcgtc cggagaaact tgctttcatt cttgagcatg tccggctatg cctaaatcgt 60
caagattatg ttcgagcaca agttttatca aagacaatca ctactagagt agttgacgca 120
gatccatcac aggaaaacga gaatccagac gacggtgaca acattgttca tgatgctcct 180
gcagatattc catccctccg ataattgaca cgaatctacc atgatctgag gattcgatat 240
tacttgcaga aaaatgatta cctgcaaadc tgtcgttgtt acaagtctac ttatgatadc 300
ccagcaatag aggaagatct aaccaagtgg ataccgattc ttaggaacat ctgttggtac 360
ttggtgctat cacctcatga tctattcaa tcgagcc 397

<210> 16679

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F7

<400> 16679

cggacgcgtg ggcggacgcg tgggcgtcgt caccagcagg gtgtcccggc cctctctagt 60
ttctaccccg gcccccaaca ttggcctgat gctgctgcc ttagagccag cgctcccccc 120
tcggcttcac cggcggcggc ggcaacgacg gtgaaaacta catcgggtgc tagctccgac 180

ggtggtgcgt gccctgttga cgatagggca cgcggggcgc gggcagcttg taagcgttcg 240
atcgcccatg tagggcaact atacatcttt ggcaggtctc catcatcctc cgtgggagag 300
aagatggtaa tggagtgcgt gtgtatgtat gtgtatgcc agggcgcgcg cgcgcggctc 360
tgggcgagtc acagtagaga tgcaatatca tgtttccagt atccttctta ca 412

<210> 16680

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F8

<400> 16680

gataaactgc actgcaggaa tggagtactt ggcaattcaa cactgggcag ccttcttcac 60
aagaaacgaa tcttagtggg tgacgacaat attgtaaate tcaaggttgc tgcaggcgct 120
ctgaagaaat atggcgcaga agtaacttgt gctgatagcg ggaagaaagc aatcacgcaa 180
ctgaaacctc ctcacagttt tgatgcttgt ttcattggaca tacagatgcc tgaaatggat 240
ggatttgaag ccacaaaaag gattatagtg atggaaagag atctaaatga gcaaatagaa 300
cgtggagaag cccacccgga atgcgcatgg ctccggcagt ggcgaactcc aatattagcc 360
atgacagcag atgttatcca tgcgacgcac gaacagtgtc taaaatctga aatgg 415

<210> 16681

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F9

<400> 16681

aactgacgtc ttcttccgcg tccgtgctct cctcctgcaa ccggccgggc gctcgtgctc 60
tttgaggac ggcgtaccgc ggtgcaagga ggaaggagaa gggaatagta tgcagtatct 120
tgagcgagga gaaagaagtg gtacaaagga cgatccggag gcgagctgcc ttttctttgt 180
tgctggcttc gccggtgcta tcagtggcgt tctcggccta tgggaagagt acaacctatga 240
acccttacga tgaaaggcgt ctgcttcagc agaataagaa gattcaggaa gccaacctgt 300
cccctgagga ttcccaaac ttcattcagag aaggcttcca ggtcaaagta gtgacaccgg 360

acaactatat tacacgggcc tctggactaa tgtatgagga ca

402

<210> 16682

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G10

<400> 16682

caccacgcgt ccggccgccg ataaaacggc cagccgggca ggggagacgc ggagtggggc 60
gcgacggcgc gtaacctgtg gggtttcagg ttttgtccct gcgtggcagc gaccagccc 120
catcgagcat ccaggcatgg aaccgggagc caaatcggaa gcaaagcaag gtgaggcggg 180
atctggcgcg ggggcaagcg gcagcggcaa ggtgtatcat gacaggcaga ggctgcaatt 240
ctgtctcttc catgctctca acaaccttat gcacgaaaag gaatgtttca cccgtgttga 300
gttggacggg attgctggaa atcttgttct caatgatcca gacaagggcc aatggactcc 360
tctaccattc atttttacac ctcaccacaa tgttataact gg 402

<210> 16683

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G11

<400> 16683

cagacgcgtg ggagcttttc ttgtgcgag ccgcagccgc tgettttcgt tegtcttcat 60
cctacgcgag ggcgaaaccc acaaaccctc tccctcccgt actccggcct acacatccag 120
gggcgatgac gctgggtagc tccggcgccg gatcgagcgt cgtcgttccc cgaaacttca 180
ggctattaga ggagctcgag cgtggagaga agggcattgg tgatggaaca gtgagctatg 240
gaatggatga tgccgatgac atctacatgc ggtcatggac tggtagcatc attggccctc 300
acaatactgt acatgagggg cgcacttacc agctgaagtt gttttgtgac aagggtatc 360
cggagaagcc accatctgtc agattccact caagaatcaa catgacatg 409

<210> 16684

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G12

<400> 16684

ctcgacgtcg aggcggggac atcggggcgcc gccgccacgg gcggcgcgcg ccagctctac 60
ccgggggatgc aggagagccc cgagctgcgc tgggcgctca tccgcaagat ctacgtcatt 120
ctctccctcc agctgtcctt caccgcgctc gtgcgcgcag tcgtcgtcaa ggtccgcgcc 180
atcccgcaact ttttcaccac caccagcgcc ggccctggcc tctacatctt cctcatcatc 240
ctcccccttta tcgtgctgtg cccgctgtac ttctaccacg agaagcacc cagtcaacctg 300
atcctgctcg gcctcttcag cgttgccatc agctttgctg tgggcatgac atgtgccttc 360
accagtggca aggtcattct ggagtctgca attctgacaa cagtggctcg 409

<210> 16685

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G2

<400> 16685

accacgcgtc cgagcaagtg ctactggaaa ggccctgtt aagaaacagt ctgctgggga 60
gtcccgctctt cataaagata ttagtgagct caacctgccg aagaccacat caatttcttt 120
tcccaatggc aaggatgata tgatgaattt tgagatcacc atccgacctg atgaaggata 180
ttacatggga ggcgctttcg ttttcacctt tcaagtgtcc ccatcttata ctcatgatcc 240
tccgaaggtc aaatgcaaga ccaaggtgta ccatccaaat attgatttgg aaggcaatgt 300
ctgtctgaac attctgcgtg aagattggaa gcctgttctc aacatcaaca ccgttattta 360
tggcctgaat cttcttttta cgcaaccaa cgacgaggat cctttgaac 409

<210> 16686

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G3

<400> 16686

acacgagtcg gagcttgatc ttctccttca ccaactgggc cgagtgggac gggccgtaca 60
cgctcaagtt caggggtcccc aagccatggc agaataagcc gctgagcttc ttcaacgatg 120
gcctgtcgga cgagctcaac agggagggcg cctgcgacct ggccatctac ccggacgaga 180
acatcgccat caccagctgc gccatggacg gctacctega ggacgggggg gatcgggtgca 240
agctggacat tgtgagcgga tgcacggacc ccagctccga catgttcgac ccgctaacca 300
ccgtctacga cgggtcctgc ccctcgagt ctgattccga cgaatgatgg tggagcttca 360
tctcaatccg acggagggag gcaacagcaa caaacgtgat ccacacatac atcatat 417

<210> 16687

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G4

<400> 16687

gggtccacgc ccgcgtccga ccacacgtcc gcggacgcgt gggctagttc tagatggcga 60

<210> 16688

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G6

<400> 16688

ggccagcttc ggcgtcgaca cccgcccggc cgccgcggcc tccggcggcg gcgtgggcgt 60

ggcggggacg agggagggcg cgctctcggt tctctccgcg gggctgcggg aggaccttcg 120

tctcatccgc gcgcgggccc gggagctcga gaccttcctc agcgcgccgg tgccggaacc 180

cgagctgttc gcgcgcctcc gtcgcgccta ctctcctcgc gcgtcctctt cgcggacgcg 240

gctcgacctg tccgccatcg ggaaggcggt cgaggccgac gcgtggaggg gcgccaggac 300

tgccaggtgg aggtgggagg cggagacgga ggcggaggag tgggagccag tcaggatggt 360

caaggcgcac ctcagcgagc tcgagcggag gaggtggccc cagtcgcccc gcgaca 416

<210> 16689

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G7

<400> 16689

attgctggtg ctctgtttgg gcaactgCGt ggCcttgCGc tggTggtCtt tgctgCCact 60
gcatgtgCtt ctctgtgCta tttCctgtCG aagatgattg ggaagCCact ggtgttcaca 120
ctgtggccag ataagctcag cttCttccag agacaggTtg ctaaaagaag agagaagTtg 180
ttgaattaca tgcttttCct cagggtgacc ccaacattgc caaatacCtt catcaactta 240
gcttcaccca tagtagatgt cccctaccat atattCttac tgggaactCt cattggtCtt 300
atccCagctg cttatgtgac tgtcagggt ggaattgCtC ttggagagtt aacttcgctg 360
agtGacCttt acgacaccca gtcgataaca ctgctattCt tgatcggtgt tgt 413

<210> 16690

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G8

<400> 16690

acaacttCtC ggTcgTcgac ggccccgcca gTcCcgccgc gggtaacccc gatgagatcg 60
ccaagctCtt ccccaacctg ttcggccagc ctcggcgTc gctggtgCct tcggccgagc 120
ccgCGgCGac caggccgCta aaggTcggtg tCgtgCtCtC tggTggacag gcgccccggc 180
ggcacaatgt catCtCGggc atCtttgatt acCttcagga gcgtgcaaaa ggtagcacCt 240
tgCttggatt caagggaggc cctgctggga tcatgaagtg caaatatgtg gaactcactt 300
cagactttgt gtatccCtac agaaaccagg gcggattCga tatgatCtgc agtggaaagg 360
acaagattga aacaccggag cagttcaagc aagctgaaga cacagccaac aagCttgat 419

<210> 16691

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G9

<400> 16691

aaatttgaca ctcttatttt tggatatgcag ctgctaggat gcctttcaaa tccaatggt 60
 gtgtccttta aagagttatc gaaaatatgt tgaaattgct acggacagta cgaagttttt 120
 catcagttgt ctgaaacatg ttgaaattgc tactaagagt agtgagtgtt gcatcatagc 180
 ctctcgaatc aatgatgtct ttaaagaatg gtatgccatg tgtaaaaagt gctactacag 240
 ttgaggtcct agtgcaccag tattgatggg aacctcgtca aattgattga gatgcggaca 300
 tttgtgttaa catggtgcca tgggttgccc actgaaagtt gttgcagtta ctagtaagtt 360
 caccttgtgt taaattctga aaattaacag tcacagta 398

<210> 16692

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H1

<400> 16692

ggtccacgca cgcgtccgaa tttaacgaga gattttggag taccatcctc aaatgctaca 60
 agaataccta caaggagcag accacaatca gatgaccttc atgtatccaa gtgggggtgga 120
 tcgcttcagg cgccaatttg ctcatttgga agaaggtact gcaaagggtg aaaaacacag 180
 tccacagctg cgacagaatg tttctttgcc aagggaaaga gtaattggca ataaacatgg 240
 agatggcaat acaggtgata agctagcgca tgcctcagtg acggatggca tcagccaacc 300
 gagcttgagt gagagaagct ttctgaagag tgaaagcatc agtgcttcca actgtatacg 360
 tgaaaaaccg aagcatgtca aagatggaga atctgtttta aagaacgtgg gataaacagt 420
 ccatgaatt 429

<210> 16693

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H10

<400> 16693

aggacgcgtg ggccaacttc tctgtcgtc tgcctaccag tagctagctc taatacatag 60
 cagccctcgc tcgcaaggta ctgcactacg atggctcgcca cctcctcctc ctcctcctcc 120

acggtagttg cacttgcggc gcttctcttc ttgtccttg taacgtgtgg ctctgctgcg 180
agaccggcga gctttaacgc ctccgacttt accgccgacc ccaactggga ggctgcccgg 240
gccacctggt acggtgcgcc caccggcgcc ggccctgatg actactgtgg tgccctgtgga 300
ttcaagaacg tgaacctgcc gccgttctcg gtcatgacat tgtgcgggaa 350

<210> 16694

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H12

<400> 16694

atattagcta gggtttcaac acatctgacg gcggaagcta tggcgctgcc accgtcaatg 60
tcttggcact cccgctctgt tcatcaatcg catcgacagg agcccatccc ctctccctc 120
aaacgacgcc gggtgacaag caggaaaagt agtgctccat gattctctat aatatccgaa 180
ataaattagg attaaagcaa gaataggaag ttattcaata ctcaaaagta aagggtttcc 240
ggctcttcag ttaaatgacc aaatgacctg tagaatgaca gcaagcaagc aagataaacg 300
gcagacagat ttcaccaact catagcagtg cagccaggg aagaaagcaa aatttgacac 360
atctcattgt ctaataagtt tgaagcctca 390

<210> 16695

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H2

<400> 16695

ggtccacgca cgcgtccgat ggattccagc agtccagcca gaggccagct gctcggggaa 60
gacggagtgc gcgtgcacag catggttctc cctgggtctcg tctccagcac gtcgatcaac 120
ttctctggcg caggagagat gtacacctta cggcatgacg ttgcgaatgt tcagtgcctg 180
atgccaggac tgatcctggc gatacgaag gtgggtgcgt tcaagaactt gatttatggg 240
ctagagaagt tcttgtagtg aacaacagac aaccaatgca aaacatcgac aggcaacagg 300
caacgcagat atcatctgac gtcgcaacaa ccaaaacgac agagatttgg aaaataaagg 360

ctgcacagaa gacgtctggg gttttgtgtg caccaggctg cgcagagaac gtctgtcatt 420
 ttgtgtgc 428

<210> 16696

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H5

<400> 16696

aaaagcgcggtg tgtaaatatc tcccctcgct tccctcttct ggtctccgcc gcgctccgtg 60
 cctccgatcc acaattccgc catcggtatc cgcagtcagc gcaacggacg tgtgaacgaa 120
 gggggacgca gaggaagata gggctcacgt tcgggaagca cttcagcggg cgcgtcgtcc 180
 catatggaga tgcaggatcc tcatg 205

<210> 16697

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H7

<400> 16697

cccacgcgtc cgcccacgcg tccggaagac atatcacagg gacctcttca ggcttcaagg 60
 cagatccgca gcagatggag gcgaagagca tgctgccgga ggtgaccatc gtcccggcgg 120
 caccggcgtt ggctggcgac ggcacagtcg acgcggcaaa ggccggcgga ggcaaggagc 180
 ccgtaagccc gggcactccg tctcgggtgg ccgccggccg cagcagctgt gaggagaggc 240
 gcgcggtgga cggcgtcgcc ctgcctgcgt ggaagctcga cgccctctgc caggagtcct 300
 gcccgtcacc ggccatgagg gcgcgcttcc cctactactt ctgaagcttt cctgttgagc 360
 tctgcctga gttcttgagc gg 382

<210> 16698

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H9

<400> 16698

caaatcattc gcgagcaggg cgccctatatt tatattatca tcatttgagc agctgcaatc 60
tggattcatc taggtcagcc gccatcaaag gataccacct cagcgctcgc acaacgggtca 120
cgcccgcagt gggcatggac ggtagatcgg acgagacggg tccaacacca ttccacacga 180
tagacgacaa gctcaagccg gactgagtca ggtaccagca gattccagtg ggagggccgt 240
catgtgctgt gtaccctgtg cggctcaccg ccggtgtacg tgacctgcga ttctgcctgg 300
gacaagtggg gggatagccc cgcgctattc geagaccggg agactttcta caaccatcgc 360
aaagtgtctc tcattccaaa ccgcttgact aagcatcggc acccccgggg ttg 413

<210> 16699

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A10

<400> 16699

cccacgcgtc cgtgttggca ctgtccctt cagtcagacc tgcggatcaa cggcgggtggc 60
tccaaatctc caatactact acatatgaac ggacaccact tttgtgcgtt tctgttgacg 120
ggaacctgtg taattctttc acctttttt cctgtgggt gacagacaca gacactgtaa 180
tatgtttatt aaaaacactc atccatatag ctgactgtgc acctcgtctc tcaattcatc 240
ctcatgctct actgcagaac gttcaaaaat gagatcgtga gggcctacgc acaag 295

<210> 16700

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A11

<400> 16700

ccatccgttt ctccgcgatg ggcgcgggcc gtgtctgtcg cggcggcccc tcctccgtct 60
ccccgccgc agggcggccg ttctcgacgc tcgccgcgtc gtccctccgc tccccttct 120
cggctccttc agagacggcg tccacgtcgg tcaccaagac ggtgaacggc tcccaccact 180
tcaaaatcgc gggctagtct ctctccaagg gaatcggggg ggggaagttc atcgcttccg 240

agtccttcaa cgtgggggga ttcgactggg cgatctactt ctaccccgac ggaagagcg 300
 ccgaggacgg cgctgcctac gtctcgtctt tcatagccct cgccagcgag ggtaccgatg 360
 tgcgcgcgct gttcgagctc acgctcgtcg acca 394

<210> 16701

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A12

<400> 16701

tggtagcct gccggtaccg tgcgaagcc gcgggtcgac catcggtcc gccctcgctt 60
 ggcgcgtgac gggcgaggg catgtcagt cctgtggttc ctctccttc tctacgaca 120
 catggcgccc gttcgacatg cactctgctt atttctcgga gtcaccttc tcgggaccgt 180
 catacacggt gtccaggtcg gacaccatga tcgtgaatgg ctccactag gtgacactcg 240
 cgggctagtc tactcaaaa ggaagccatc tgtggaagtt caacaattct tagtctgca 300
 agattggagg atgctactga gggatgtagt tc 332

<210> 16702

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A2

<400> 16702

cccacgcgtc cggcggtagc gaaaacgca gcgtgcgga acaacgatgg cgacgatgtc 60
 tcttgccgag gcgtacccc tcgctccat tccccgagg atcgccgctc aggtccttg 120
 cgcgccattc ctgtccatcc gcttaagtgg cgcgacggcg acgctgttcg ctggactggc 180
 ggtggcctcg cagccagcgg agcgtcgcgc cgcggcgatg gtcacgatgg cgaagaggga 240
 gcaggagctg gaggagatcc gggccatgac gaccgaacag atggtagagg aggtggtaga 300
 cctcaagggg gagcttttcc tgctccgct taagcgctcg gcgcgccagg agttcaagaa 360
 cagcgagttc agccgcatgc gcaagaggat tgctcgtatg ctaaccgtga aaagagagcg 420
 ggaaa 425

<210> 16703

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A3

<400> 16703

cggacgcgtg gtggacgcgg tggagagcga gtggggccag ggcgccgacc tggccgcgct 60
ggagcgcagg ctccgcgagg acgcgccgcg gcacgccatc aaggccgtgg ccatcgtgca 120
caacgagacg gccacgggcg tcaccaacga cctggccgcc gtgcgcgcgc tgctggacaa 180
gcacgcgcac ccggcgctgc tgctggtgga cggcggtgctg tccatctgcg cgctggactt 240
ccgcatggac gagtggggcg tggacgtggc gctcacgggc tcgcagaagg cgctgtcgat 300
gccgacgggg atgggcatcg tgtgcgccag ccccatggcg ctggaggcca acaagacggc 360
caggtccgtg cgcgtcttct tcggctgaag gactacctca ggttctacga catgggcacg 420
tact 424

<210> 16704

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A4

<400> 16704

ggaaggccgc gcaaatacgg acctgatggc accatgaggc aacaacaaca acagcaacag 60
gccgcgtcat cgcagcagca gcagcagcag ctcgtcgcta cacaaccgag gatatgttct 120
ctatcatcgg gtcccgacat gctcggcagc tccggtatgg aggaccccg cgcagaagaag 180
cggcgccggc ggccgcccgg caccggcaag aagcaccagc cctcgacctc acaaggcaac 240
gcgttcgcgc gttcggctgg aacgaacttc actccgcaca tcatcacggc gtctccttca 300
gaggacgtgg cggcgaagat cgttgcgctt gccagccagt cgtcaaaggc gatgtgcgtc 360
ctctcggcga tgggttccgt ctccagggcc gtcgtccgcc acccgccga cggctctccc 420
atg 423

<210> 16705

<211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A5

<400> 16705

cgagacgcgtg ggccggacgcg tgggcgtgcc cgtgcggtgg ttcgaccaga tccatctcac 60
 acccttatcc tctttacgcc tcaccactac agagaaaaag agaaacctgc gagcgacggg 120
 gactatggcc gccacccgca ccgccctggc cctgctaggg cagcagggca tggaatctgg 180
 gccacggccg gcggcgccgc gccgcagcag gctacgcgtc gtcgccgtcg cgctgcggac 240
 caggcccacc agcctcgcgg ccccggtct cccgccgcg gcgccggagc ccgtgctgcc 300
 gtgcgcgcc gtggcgcgcg gcgccgcggc ggtgctgctc gaggcggcg tgccgcccg 360
 cgacctcgg cgcgcgcgcg ggatgtgcc ggagctgctg tccgtgtccg cggaggccgt 420
 cgaggccgcg c 431

<210> 16706
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A6

<400> 16706

ggcatcatcc gtctcgtctc gtctcgctc tctctcctt tccccctc cctgcacagc 60
 gccgctcacc gtcaccggac cacagcagcg atcgatggct gaggtacaca acgagcggcc 120
 cgtggggatg gtggcgggcg tccgggacgc gccggtgggc cgcgagaacg acctcgaggc 180
 catcgagctc gcgcgcttcg cggtcgccga gcacaacagc aagaccaacg cgatgctgga 240
 attcgagagg ctggtgaagg tgaggcacca ggtcgtggcc gggaccctgc accacttcac 300
 cgtcgagggtg aaggacgccg gcggcgggcg aaagaagctg tacgaggcca aggtgtggga 360
 gaaggcgtgg gagaacttca agcagctgca gagcttcgag ctctcgagag acgccgcggt 420
 cgcctgaggc gcac 434

<210> 16707
 <211> 433
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A7

<400> 16707

gtacccacgc gtccgatgat gaaaggattc caccgtgttg ctgagagtct tgatgatctc 60
attcttgaca taccatctgc aaagtctgaa tttcagttgt tggatatcaa agccatttct 120
gagggatggt tagattcttc ctatgtgaac tcaggtgtca acggaagcgt tgaagacgat 180
gaacatgaga agctggctag gtacaagagg gaggtgtat ccataatata cgagtacttt 240
ttctctgatg atacaacaga ggatcatccgt agtgtcaaag agcttgggta tccggaatac 300
aatccgatct tcgtcaagaa gtcataaca attgctatgg accgcaagaa catggagaaa 360
gaaatggcat cggttcttct cccttcatta agcatggagc tgttctcgtc tgaagacatc 420
gccaagggat ttg 433

<210> 16708

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A8

<400> 16708

gtgaggcagg aactgggtcca tgcgaatcaa atctttgctc agaatccatc gtggccagtc 60
attgcgggtca ctggaaaagc tatcgaggaa acagctgctg tcattcttggg gatcctccat 120
gacaggaagc agaagtgtc catgccacgc atatcaaaac gatactagca ctgtgttcta 180
tcccttctct actacacctt gtaacgtgtg catgttttga ataagctttg tatcaaggac 240
catagccttc atgtaatttt tttttgttgg accaccttct aggtggtgcc gtttgtatca 300
taaacataac ttgaagttta ggcgagcaga aacacatgta tattgcgttt aaaaaaaaaa 360
aaagcatcaa atcaactcac atcagtgaac agagaccagt tcacaaaaaa aagggcgg 418

<210> 16709

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A9

<400> 16709

catacttttgg ttcactgcgt acaagatgaa aaagccgaac aagtacaact atccaattgg 60

aaagaggcgc atgcagccag tgggaataat agttttcgca tcagtgatgg gcacacttgg 120

cttccaaagtg ctgatcgaat cagggcgcca gtcataact caggagcacg cggatttcaa 180

gttcaagcaa gagctgtgga tggtcattag catgtcctct gttgcggtcg tgaagttctt 240

cctcatgctc tactgcataa cgttcaagaa tgagatcgtg agggcctacg cccaggacca 300

tttcttcgac gtaatcacia actcgggtcgg cctgggtctcg gcgctgctcg ctgtccggtt 360

caaatgggtg atggaccctg ttggcgccat actga 395

<210> 16710

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B1

<400> 16710

tccgggtcga acacgcgtcc gcagacgcgt ggggtaggat cgatcttggt agcagagcag 60

aactcgttac taaaaaaatc tatattatat tacagacact atagcttttt gataacttgc 120

cgtgcaaattg tggtaac 137

<210> 16711

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B10

<400> 16711

cggacgcgtg ggtgaccaca aaagtgtttg gagtgcccca gccagggtgg tacatggttt 60

attacatcat taatactatt caagagttag taaccgctct gacccaagag catccgggtg 120

tgctgatgtt ctgggcggac tggaaccagc caagcaaggc cacgtactgg gatctggcca 180

gcgctaaaaa ggatgaggcc gtattctgcc agctggactt tgataagttt aaagatgtcg 240

tagagaagtt cagagtgaag gctctgccga cgttcctcct gatcaatgag ggcgaggagc 300

agcgcagggt cgtcgggtgcc aaggctcagg agctcaacat ggcattatca catatcggat 360

aatctaagca gctatagcgc tcaca

385

<210> 16712

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B11

<400> 16712

gcaggagaaa gccaaacat tgcctcccc tcttgaagge ttggagcttg gttctacatt 60

ctcttctctt cccctccgtc tctctctctc tctctatttg gtttgcttgc ttgcctctac 120

tagactctag tcgtcgggtc cggccatggc caccatcgtg gagaacatcc ataaggcgag 180

gttcctgccg accaggccgc tcaaggacga gctgcccata ttccagtgcg gcggcatcag 240

caaggaggag agccacctca tgggcctgag gaagcgggtg tccagcttct ccggcaagat 300

ccagcccatc tctcgcgt cgggtgccga gtgggcgttc tgccgctcca agtcggcgcc 360

ctccct 366

<210> 16713

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B12

<400> 16713

tagcgcgtcc ggcctctccg acaagatctg gaacaacggg cccatcagct tccaactgca 60

gtggttccag taggtcacct ccgccgtgtg ccggcaggac tgcaagaact acctggccaa 120

ctcgtgttgc gtgttcgggt agttcggggg caacgactac aacgccatgg tgttctacag 180

ctataaggcg ggccaggcca gcgagtagat gccacacatc gtgatcgcca tcgcggccgg 240

cgtggacaac ctgctggtca tgagcgccac ggacgttgtg gttcccgggg tgctcacagc 300

ggcgggatcc ccacctaggt cactcgtcta 330

<210> 16714

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B2

<400> 16714

cacacgcgtc cgcggacgcg tgggcggacg cgtgggcgag gagccgaccg acgggcgaag 60
cgaggaggag gcgatggcgg cggcttgggg gcagaaggcc ctgggggctc tgccgcagct 120
ggtgaagtcg ctgcggagtg atcccgtctc cggcagcgca cgacacaggc gccttccgctc 180
tctcaggagg accttctcgt tgtacgatca gatcaacctc atcgacagcg tcccgggaaga 240
cgagctccga ttccagtcgt atgatgacac tggattcaaa attaacaatg taaaatatga 300
aggcagtgtg ttgattgtag agaacaagat aatgacatgg gcacccaaaa cgttctcaga 360
gataactcct gaaagtttat caatcttcag agttgtgcac cctatcccag agatcttt 418

<210> 16715

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B3

<400> 16715

ggtacgcctg ccggtactgt tccgatgctc gtgggtgctc gagacgcgtg ggccgacgcg 60
tgggcggacg cgtgggccgc cgactactcc ttcgccagca ggccgccggc cacactcgtc 120
tttctcacga gccacaggca caggcaggct ctcgagctca gtccaccag cgcaggggat 180
ggcgctcgtc ttcgccgtgg caacgggtccc gtcgctggcg gccccggcg ccaagaagcg 240
gtccggcggc gtcacgtacg tggagggcat gagcgcctac agcggcctca aggggctcaa 300
cacggtgaac atgctcggag tgcgcacgac cgccgactac tccttcgcca tagtcgtggc 360
gtcgctcagc cccgcgggca ggaagcggcg cggcggcgcg ttccggcgcc acatgaacgc 420
cgccgccgag atcgtcag 438

<210> 16716

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B4

<400> 16716

cggacgcgtg ggcggacgcg tgggcggacg cgtgggtttt ttttttttaa cagaaagcac 60
 aagtcattctc attatcgacg gcaatggtag gttgatgttg gactagcact cgatccttag 120
 atggatcaga atgcatacgg gcgacaagga atggaagaac atacgtcccc acaaaaagtt 180
 tcatggggca acaccacaat cgtctgcatt taagcagtaa tgccgaatat ggagtttcga 240
 cttcattttca ttttcatccc atggcatttc tgggtccagc tgccgggtgt tgccctcgta 300
 ttaggccgat ccgtcttgga catgtgagca atctcaggga caagaggatc gtctgggttg 360
 ggatcagtaa gcagggagca gatagaaagc aaaaccttag agattgtcaa agcagggttc 420
 cact 424

<210> 16717
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-015-Q1-E1-B5
 <400> 16717

cggctgtcat cttccctacc ggaagcagcg gcagggggca agatggtgcg gcttggggca 60
 agatggtgca gtggctcacc taccggaagc ggcacagcta cgccaccaa tcgaaccaga 120
 cccgcgtcgt caagacacct gttgattagg tgggaaactt gtgttccagt acaccaagaa 180
 gcgcgcgagc ggaccgaagt gccagtcac cggaagaag atccacggag tatgtgccgc 240
 ccatctttct attttatacct ctggttattg tgttacgtcg ttgcatcatg ctccatgcag 300
 agatttcaac tttaatgctg cttgatcagc ctacgctaag agttttctgat ggaacatgta 360
 ttt 363

<210> 16718
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-015-Q1-E1-B6
 <400> 16718

cttcaacctt tgcattcaga gacctagtgg aatagagcga ggggaatgga gcaaggagac 60
 gaggcgtcgt cggtagacaa ggagagcccc gagcatcagc ttacccggga ccgggagcag 120

cagcacgacg ccggcgtggc gtggctgaac ctcacgcttc gcgcggggcga gtcgccctcg 180
ccggacgcgg ctgcgagctg ctccgccgag tccgggtccg ggtccgggtc cgggtccggg 240
cccgagccca ccgccaatcc gtccgccgcc ccgcacaagg tgttctctg caacttctgc 300
ctgcgcaagt tcttcagctc gcaagcgtg ggccgggcacc agaacgcgca caagcgggat 360
cgcagcgccg ccaagcgtc ctaccacgg caccgcatga tcgtgggcct gccgctgcac 420
gcgcacgccg cgctca 436

<210> 16719

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B7

<400> 16719

cggacgcgtg ggccgacgcg tgggcgaatc ccgtcttctt ctttcttgg ctttctccac 60
ctcatcgccg agacgagatc tctccacac gagggaggca gcagggaagg gagagatggg 120
cgggcgggtg gatcacgagt actcctacct gttcaagatg gtctcatcg gagacagcg 180
cgtcggcaag tccaatatcg tctctcgctt caccgcgaac cacttctccc tcgactccaa 240
gtccaccatc ggcgctcgagt tcgccaccaa gtccctgcag atggacggca aagcagtaaa 300
ggctcagatc tgggacacag ctgggcagga aaggtagcgt gcaattacaa gtgcttacta 360
ccgtggagcc gtgggagcac tgcttggtga cgacatcaca aagaggcaca gcttcgacaa 420
tgttc 425

<210> 16720

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B9

<400> 16720

atatgaagcg caccgaaactg aaaacgagtg tgtgaaacgt gatgcgtggg aaactgttaa 60
tgcgatgtat tctgctgaag aaaattcagt tccgtatggc tgggtagatg aacatgttta 120
gcgcaaagtg acggtgtaac tgcaaccggg gtaatggctt gcaagttttg ttc 173

<210> 16721
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C1

<400> 16721

ggcacgcgtg ggcgagaagc atgcccacag tattgttagc aaaatgatga tgcataaaga 60
gcttcaggct agctggcacc agccaacaga gtgcaccgtg tttcacagcc tggatcaaac 120
caggcttcag gagctactct tccaggttgc agaaaaata tcggtcctgg tggagacaaa 180
cgagagggca tacgagttaa gaactggtgg tactcttgag gggctaccgc ccaggcgcag 240
gggcgaagct caggattcat ccaagtggca cgagagcttt gtcccatcac agggggcggc 300
acggtggtgg gaaccggttt ggggtactccg ggagaggtgc agcatctggt caaagtgggtg 360
ggctccagag gggc 374

<210> 16722
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C10

<400> 16722

caccagccca gcagcagaag cgcccctcgg cctcgcctcc cacaacaagc tcaagccagc 60
cttctctctc tctctgctcc aatggcgccg ttctagctcg cagccgtggc catggccatg 120
ctcttcgccc cggcggcgcc tcatgcttca cagccatctc gtactcggct cgaaaggtgt 180
ctctcacgcc tggatattct cctccaatgc ccgcgcgggt ttaccgcagc ctgtcggcac 240
gtttcatact tgccgtgttg ccagcactca ccagattgc ttgtaggccg cacctctaag 300
aaccatgcct agctgatgtc gcctccgtca gtctgtcagc attcaagc 348

<210> 16723
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C11

<400> 16723

ggtagcgctg ccggtaccgt gccgaagtct cggggtcgat aacgcgtccg cccctgcagg 60

gagacaaaca gcgattgcgt gataggattc tagattcaga gaaatctgca aagattgacg 120

cccagcttaa tgatcacgtc agtaggatgc tcacgtcgct tgactaggat atgagaaatg 180

acacatccaa ctggttctat caaaagacat tacgatataa gctactccta aaagatcatt 240

gtctcaacca acacaaccta tgacagcgac agtggttacct caactatatt cacctgaagt 300

cgttgccatg ataacggcaa tctctcaacc aacggcatca atgggtccgga aagtactgcg 360

ccaaccta 368

<210> 16724

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C2

<400> 16724

ccaagaccag gaaggaaaca ccgccgccgc cgcgccttcc attccagtag tcgcggagga 60

aaggaacacc agccagcgcc atggtcacgt cgaccaccgc cgcgcgtcgtg ctgtccccgc 120

cgtccgtggc cgggcttcgc ctggcgccgt ctccccgggc gcgcgtggcg ttccgcgcgg 180

cgcgggcgca gcgggtccgtg gcggcgcgcg cggagctgag cccgtcgctg gtgatcagcc 240

tgagcacggg cgtgtcgctc ttcttgggccc gtttcgtcat cttcaacttc cagcgggaga 300

acgtggcgaa gcaggtgccc gagcagaacc gcaagacgca cttcgacgcc ggcgactagc 360

gcgccaaggg gttctcgggc ctgctcaagt ccaacgaccc cgtgggcttc aaactcgtcg 420

aggtcctcgc ctgggggtcg c 441

<210> 16725

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C3

<400> 16725

cacggacttc agcagttgca gtgccggctg cctccctctc gcgtgcgctc gccctgtgcc 60

tctcgcgtgc ggaagctagg caaaccgccg gcgccctagc taggtgccca ggccatcgtc 120
 ggtcccttcg ccaagccatc gtcgggggtct cggggattag caccgcacc cacaagatgg 180
 ccacaccgaa cggtccttct gcttctccga tgggtgtaccc tgtctacctt tctgggggtat 240
 ttccccagca aggcggggat gatcaggctc aagggtccaag gatatatgcc atacaacaga 300
 accagtttagc agcggcgatg ggaatggggt gctatgctcc aaccacactc attcgctca 360
 cttacaatat cccaacagaa agcattgggtg ctctgtctgg tgaagagaat gtacaggatg 420
 ctaggcagca aaa 433

<210> 16726

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C7

<400> 16726

cgctgggtgaa caacgggtac gaccccgagg tcatcgacat caggtcgctg aagccgttcg 60
 acctgcacac gatcgggaac tcgatcaaga agaccacccg cgtgctgac gtggaggagt 120
 gcatgcggac gggcggcatc ggcgccagcc tgcggtcggc catcatcgac aacttctggg 180
 actacctgga cgcgccatc atgtgcctgt cgtcgcagga cgtgccgacc ccgtacgccg 240
 cgacgctgga ggacgccacc gtgggtgcagc ccgcgcagat cgtggccgcc gtcgagcaga 300
 tctgccaatg atcagtgata tcatggcttt gttgagtacc tgatctgtgg agtcagatta 360
 ccgtgggtttt gtttctctgt cgcacgcga ctgtcacctg gccttagaca agacatgttt 420
 ttgtattttg ca 432

<210> 16727

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C8

<400> 16727

gacagcgtca ccgtggggga cattgctact gtcattccac aatgcttgtg gcatcggctc 60
 cgacaagatc cgcattggatc cattgactcg ggtttacttg gcagtgataa gttttatcaa 120

ttcttttagct aaattgttct tgatgtaact gttcctaagt cacaatctag ctaaagacta 180
cacagagctg cttgacgcat ctgcacagca tggatacgca tgaatccatt gactcgagtt 240
tacttgatca gtgcaaaatg ttatgaagtc gttagctata ttgtacttga agtaaatgta 300
ccttactcac agtttttgtc gggaatgctc ttgtttctgtt actttcatga tgttctgccg 360
tctaatacaca tctgaagctt gaattggtat caagaaagcc ggggccctct ggtttagta 420
aattgagaac ccc 433

<210> 16728

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C9

<400> 16728

gcccagaaag cgctcgaccg ccgttcccag cgctcggttc tccagtctgc cctggctcaa 60
cgcttggaaca ccgggtccac tgtgctcgtc cgtgccccgg actccatggc gttctcgct 120
ccatgctagc tccagccgag tcttttttcc catcgagctc gccctcaact ctacagcgcc 180
gtctagcccg tcgtttttct cgtccagtgc tcgcgcgggt ttacccgaac cgcgctgccg 240
tctcctagtt gccgtgctgc catcactcac ccagcttcct tggtggccgc gcctctatac 300
tctactocta ccggatgtcg cctccgtcag cctgtcatca ttcacgcgaa tatcaaatca 360
aattgagata tggtagctg attcactagt tttactatta gtttta 406

<210> 16729

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-D1

<400> 16729

catcctgcct gatgcaaaca tttcctcttc cgatcgtgcc gacgtttagc gtggtacgag 60
gctgctggtt ctgggcacgg tcgagatgtc tgaagtgtcc gttagaaacc acgcggaagt 120
ggaggacgag gacgccgggt agctgatgga cctgccggcg agcttcggc 169

<210> 16730

<211> 122
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-015-Q1-E1-D10

 <400> 16730

 acgcctgccg gtaccgttcc gaagaccccc ggtagataac gcgtccggca tgtttgtata 60
 tcactatctg ggtaaatagt gtccgccttc gaaaataata cagcaaattg ttgtgtaccc 120
 ct 122

<210> 16731
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-015-Q1-E1-D11

 <400> 16731

 aaccaacaag gcagcaacac aagcaagaac cacacctcct cccttcgcct gtgatcatgt 60
 cgtcttgctg cggcgggaag tgcgggtgcg gctccagctg ctctgcggc agcggatgca 120
 acggctgctg tatgtaccct gacgtggaga ccgcgcgcac cagcagcgtc aagaccacgg 180
 tcctcgccgc gccgaccacc aaggccagcg ccggcggtt cgaggcgcc accgatggcg 240
 gcggtgctga ctgcaacacc tgcaagtgcg gcaccagctg cagctgctcc tgctgcagct 300
 gcaactgagc tggcccgcc cgcgatggc gcacgagagt cgagaggagg atgacgacga 360
 ccaggcgtat aaatataata gggcggtcca gtacataaga ttctgtc 407

<210> 16732
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-015-Q1-E1-D12

 <400> 16732

 cggacgcgtg ggcgcgcgc ccgcgccttc cattccagta ctgcggagg aaaggaacac 60
 cagccagcgc catggtcacg tcgacgaccg ccgcgcctg gctgtcccc cgtccgtgg 120
 ccgggcttcg cctggcgccg tctccccgg cgcgctggc gttccgcgc gcgcgggcgc 180

ggcgggtccgt ggcggcgcg cgcggagctga gcccgctcgct ggtgatcagc ctgagcacgg 240
gcgtgtcgct cttcctgggc cgcttcgtct tcttcaactt ccagcgggag aacgtggcga 300
agcaggtgcc cgagcagaac ggcaagacgc acttcgacgc cggcgacgag cgcgccaagg 360
agttctcggg cctgctcaag ttcaacgacc ccgtggg 397

<210> 16733

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-D2

<400> 16733

gaaagcaacg actccgcgtc cgcctgacct gacgtccgcc tgatgaccga ttatcttcct 60
tctccgtccg agtaaaggaa agcaacgact ccgcgtcccg cttccctttc ccgcacggc 120
ggagttcaca atccccaccg gccggcgtag cggatattgc gagttacgac ggggaaggag 180
aggaagatcc gtcgatccgc gcagattcgt ttcgatcgtg gtttggtgac ttggtaagag 240
gggaggggag aagcggcgat gtcgggcgtg ttcggcaggg tgttcgggaa gtccaaggag 300
cagagccagg cgaccgcgtc gccctcgctc gacaagctca acgagacact tgaaatgttg 360
gaaaagaagg aaaacttgct agtgaaaaag gccaatcttg aggtcgagaa ggctaagaat 420
tttaccaaag ccaagaat 438

<210> 16734

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-D3

<400> 16734

cacagcagac gccgtcacia ctcccatcca tccgtttctt cgactccaca tcgggagccg 60
caagcagaac caatgacgac gacgacgaag cagctccgcc gcgtgcgcac cctcggcgcg 120
cggcgcgctc ggcgccgtgg tgtggctggc ctccgacgag gcctcgggag agctggtggc 180
ggtcaagtgc gcgcgcgccg cggggggccgc ggcgagctg cagcgcgagg gccgcgtcct 240
ccggggcctc tcgtgcgcgc acatcgtgcg ctgcctcggc tcccgcgccg cggcggggcg 300

cgagtaccag ctctgtctgg agttcgcgcc gggcgggtcg ctccgccgacg aggccggcaa 360
gagcggcccg ggccgcctcg cggagcgcgc catcggggcc tacgccgggg acatggcgcg 420
cggg 424

<210> 16735
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-015-Q1-E1-D4
<400> 16735

tccctctcca tctccggcgt ggcgcttggc gtctgacctc aacacgcaag aaagcaaagt 60
gcaggcggca gggttgcgca tgccaccctc aagggcccga gtgtggtgaa ggagatcttc 120
attggactga ccctgggtct gatcgcggga ggcattgtga agatgcacca ctggaacgag 180
cagaggaaga ctaggtcctt ctatgacatg cttgacaagg gccagatcag cgttgtcgtc 240
gaggagtaaa gagttcttcc cagttatfff caaagaactc tctcgagagc atgacaaagt 300
gattgcttgc tgtggagatt tgtcctggaa ataagcacia ccatttggga acaccagatt 360
ttgtcgaatt ttcctttcct tttgatgaat atttgagcac gtccatgtca ataccaaaca 420
tctggccttt tctctc 436

<210> 16736
<211> 384
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-015-Q1-E1-D5
<400> 16736

cccacgcgtc cgcgacacgc agtcttgcac ggaccccaac gtcattggagg ccaaggtcgt 60
ggtcagctcc tgcggcgacg acaggccctt cggcgccacc ggcgtcaaga ggctccaaga 120
catcagcatg atgagcgccg tgccggggat gaaggcgctc gacatgaaca ccgccgacga 180
cgagatcgtg cgcctcacgc gcgaagtcgt tcccggcatg atcatcaccg gaatggaggt 240
cgccgagatt gacagcacc ccaggatggg cccgacgttt ggcgccatga tgatctccgg 300
ctagaaggcg gcgctactgg cgctcaaggc cctgcgcagg cccaacgccg tggaccggaa 360

tatgtcacccg ccgttgacag agga

384

<210> 16737

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-D6

<400> 16737

cccacgcgtc cgggcgccgt cctcctcccg attcgacgat ccggcggcgg tgaggcgccc 60
ccccgcagca tgaacggaag ccgccgtaga tgttgcttct cccgctcgtc gacgcccccg 120
tcctccccct catcaggatc tggctgcggc acaatcccgt aatgagggac cgtctcttct 180
acggcatcct cgccggcgca ttcgactacg ggcctacct catatcggaa ctgtatgatg 240
tggagagcag atgatgggca tccctcgaag gatgagggga taagttttca cgtagcaaaa 300
tttgattcca tcgggattcc agattgttgg atgagagctg acatggcaat tcagactaac 360
tagtgtgcta tgtaccata tgttttcttt ggcatgcta ttatgtttgg caacacgatg 420
gaatggttga g 431

<210> 16738

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-D7

<400> 16738

ctcacctcct tcgccgttgt ctaccagatc atcccatggc gtcggagaag aagcagtcga 60
aoccgatgcg ggagatgaag gtccagaagc tcgtgctcaa catctccgtc ggcgagagcg 120
gtgatcgct caccgcgcc gccaaaggta tggagcagct gagtggccag tcaccggtat 180
tctccaagge aaggtaact gtgaggtcgt ttgggatccg gcgcaatgag aagatcgcat 240
gctatgtgac ggtgcggggg gagaaggcaa tgcagctgct ggagagtggc ttgaaggtga 300
atgagtaaga gctgctgagg aggaacttca gtgacactgg ctgctttgga tttggtatcc 360
aagagcacat tgatcttggc atcaagtatg atccatctac tggatatctac ggcatggact 420
tctacgtcgt 430

<210> 16739
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-D8

<400> 16739

```

cccacgcgtc cggcaggccg ccgacctgat cgcgtctcaa tctcagcaag acgacagccg   60
ggctgcggtc ggcagcgctt tcaacgactt ctctttccac gcgcccacca tgcccgcgca  120
gaccacgtcc ttcccttctt tcaaggagca gcagcaacag caagtcgaag cggcgactaa  180
gagcgccgtc ccgtcgagca acaaggccag cggcggaagc ggcggcagca ccaagcttga  240
ggacgggtac aactggcgca agtacgggca gaagcaggtg aaggggagcg agaaccgcg  300
cagctactac aagtgcacgt accacagctg ctccatgaag aagaacgtgg agcggtcctt  360
ggccgacggg cgcgtcacgc agatcgtgta caatggcgcg cacaaccacc ccaagccgct  420
gtccacgcgc cgcaac                                     436
  
```

<210> 16740
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-D9

<400> 16740

```

aggagaagga gatgagagag aaggaattga gcatgggtct tcgggatttg gtcgtggaca   60
ctgacgacgg tggcaatgcc aatcgctcca aggagaacgg tagcagcgga gggcccagcg  120
tactgcgcag gaatgtcgtc aatggcccaa ccacgcctgc taggtaatgg ctttctagag  180
cttgcaagtgt gcttgggtga agaagcagtg ccgcagtgca tcaatctgtg tgacaaaagc  240
aaataaagat ctgttgctct tttctcgctt atacctgttt aagctgtcta ttgtattctg  300
ttgagaaatc aatcacatct atactttgtt tctgctag                                     338
  
```

<210> 16741
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E1

<400> 16741

cacacgcgtc cgcggacgcg tgggtcctcc tctcagagga ccgccgtgca ggagcggagc 60
tccccgcgcg ttctctctcc gccttccgag agggccgacc cctgatacca cgctgagggc 120
ggtgggatta ggagattagc gatggcgacg tggcggccgg cggcgtgct ggtattggct 180
ctggcgaggg ttctatcggc ggcgtggcgg gcggatgcgc tatcggttac ggtgaccgac 240
accgagtgca tccacgagtt tctgccctat gaggcgaca ccgtgtccgg gaacttcgctc 300
gtcgtccacc acgacatctt ctggagctcc gaccatgcag gaatccgact cacggtaagg 360
tcaccaggtg gcaacactgt gtacacattg gagggaaaat ctggtgagaa atttgagttt 420
aaagc 425

<210> 16742

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E10

<400> 16742

atttgacctt ggtgattaca gctgtaattt gttgctggat gatgtatgca atcgtctacc 60
ttgctcagat gaagccattg atcgacccca ttctgagcgg agagtgcgag ctgcatctgt 120
attgaacaga acgaaagcga gacctgctgt accattgttc agtccgtgaa ctttatattc 180
atTTTTggccc cacctgatga aataaataaa taaactgcc tgaTTTTTTT ggtgccactc 240
ttcaccctg attagtgtat gcaattgcat gatatacgca gtaataacat ataaatatct 300
atgtatcgat catgtgcttg aaaaaaata taagaatg 338

<210> 16743

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-015-Q1-E1-E11

<400> 16743

cccacgcgtc cgcaggggtg tagatacaag ccgtgataaa caacagcctt gccaaattgg 60

cttgcttata taagagcaat aggtctcaac aagttgctgc acacaggaaa agaaagggca 120
tatcgaggag gtttttaggg tgggtggtggt gttgtgagga gctgctgccg ctgctctcca 180
gtctccaccg atggcgatca agaacatgac ggtggcggcg acgacgcggt cgctggacgc 240
ggacatgacg gtggacgagt tcaaggagtg gctgcggcgg ttcgacacgg accaggacgg 300
gcgcatcagc cgcgacgagc tgcggcgcgc cctgcgtgcc atccgctccc gggttcacggg 360
gtggangagc aagcaaggca tcagttacgc cgacgctgac cgggacggct acatcgac 418

<210> 16744

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E12

<400> 16744

acacaaaagg tggggatatag ataagattat agatggatgg tgacacaaca cagcagggca 60
catggctagc ctgctagcgt gcggcaccca cacaacacaa cacaacacac tgctcgccag 120
aagcgcccca gggggccagg ggaggacacg acgcgcgcat caggcatcat catcatctca 180
gactcggagc atgccatggc acgcaactga ctgactgact gactcgaaac acacacagcg 240
acgcgcgtat actttattaa gctttataat tagctagctt cctccggccg gcctgcaggg 300
tggagcacct agctcacttg ccgcagttgc aggggtcgca ctggcagttg ccgccgcact 360
tgcaaccgcc gttctcaact ccg 383

<210> 16745

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E2

<400> 16745

aacgctcccc aacgaagtgc gagcgacca cgtccacacg acacgaacca ccaccaccaa 60
ccagcagccg caccacgcac ccagcgcaaa gcgatggcgt cgctcaccat gatggcgctc 120
ttcgccgcg tggcggtggc cgcgcctctg cgcgcggca ccttcgcggt ggtcaggctc 180
gccaaaggtc accgctgcca ggagcccgcc acgctagcag caaccgaggc caggcccgcc 240

gccgacggac gccgcgccgt catgctcgcg gctgctcgcg cggccgtggc agccatcggc 300
 ggcgccggcg ccgccatggc gggccccaag aacgggacgc ccgacgcgaa gaagaagtac 360
 gcggccatct gcgtcaccat gccacccgcc aatgtctgcc acaactgagc acgcc 415

<210> 16746

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E3

<400> 16746

cactctgaag acgatgcttt ggggtggttcg aagcataaga agaagaagac caaacttgta 60
 gatgttcaag ttgaacagaa ggataaatta ttgggggttaa aattgtggaa ttttaagagct 120
 ctagttttga aatccttaca ccaatgtttc ctctatgata atgaccagaa gatccttgat 180
 tcctctaatt tccaggttct tttgaaacct attgtctccc agttcgttgt ggaaccacca 240
 aaatctgttg aatcagttct tgacgctcca tcaattgaag aagtagatga aactataatt 300
 ctgtgcttgg gccaaatggc agtaactgca cggacagatg ttctttggaa gcctcttaac 360
 catgaggtgc tgatgcagac taggagtgat gaagttcgcc ccaaaatgct gggcctg 417

<210> 16747

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E4

<400> 16747

cggacgcgtg ggcaacgacg gagggggagg cggcgacgac gccgtgctgt tcaagggttc 60
 cgccatgacc cgccgaggtg gcgccgctgc gctctcctac atggcatgct ccgtgctgct 120
 agtgatgttt aacaaagcag ctctttcttc atacaaattc ccttgcgcaa atgtcatcac 180
 gtccttcag atggttattg ttgcgcacca cacctcttcc cttggcttat ttactctaca 240
 tgcttcgatg gaatcgggtc gtggagttaa cgttcctatg tatacaactc tacggcgcac 300
 aacagtcgtg tttaaatga caatggagta tttcctggca aagcagaggc acacccacc 360
 tataataggc agtgtggctt tgattgtatt cggagcattt gttgctggag ctcgagactt 420

gtcatttgat gctcgt

436

<210> 16748

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E5

<400> 16748

gggctcattt acgatatctt gaggacgatg aaggactgca acatccagat attttatggc 60
cggttcagat cagacaagaa agggtcagcc agcaaagggt catcaggttg ccgtgaggtg 120
gatcttttctg tgaagcaagt agacgggaag aaggtgactg atcctgcaa acaggacgcg 180
ctgcggtcac gcctgaggtc cgagacgctc catccgctca gggcatgggt cgtcggccgt 240
ggacccgaca cggagctcct cgtcgccaac ccggtcgagg cctccgggaa tggacggccg 300
cgcgtgttct acgacgccac tcttgctctg aaggcgcttg ggatctgcat cttctctgct 360
gagatcggga cgcaagcggc gtccgagcgc cactgggaag tgtacaggtt cctcctggat 420
gacagcaagg a 431

<210> 16749

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E6

<400> 16749

catcatcgcc gagcgtgcgt gctctagctc tagcaatagc agcgaggaga cgatcgagga 60
tggatcagaa caacagcaac aggcagcagc agcaggcgcc gccgccacca cccgcgggct 120
acccgacggc aggcgcggag cagcagggag gcagcggcag gaagcagggg cgcgggggga 180
agacgacctc gcgcggggag aagggttca tcgaaggatg catcgcggcg ctctgctgct 240
gctggatctg cgagatgtgt tgcgactagg cagccccct cccctccctc cgccccccag 300
gcttgacagg aacggagaga tctgctccac ccatagctgc agttgtggct gcacgtactt 360
gttgagctgt tgtgttgtgt ccatctcggg actttttgat ttgttattag ctgtggtgat 420
gatgcatggg ctgccct 437

<210> 16750
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E7

<400> 16750

```

agcgcttata gcttgtcagc catggccacc gccgcgcgt ctagcctcct caagtcctcc 60
ttcgcggggct cccgggtccc ggccgccacg cggaccacac cggcgctcct cgtggtggcc 120
accggccccgc gcggcgccgg cgcgggggccc atctgcgcgt ccatgtccat gtcctcttcc 180
aaccgcacct acgacctgac gtccttcggg ttcagcccca tcaatgagtc catcgtgtcc 240
cgcgagatga cgcgtcgcta catgacggac atgatcacct acgccgacac cgacgtcgtc 300
atcgtgggcg ccgggtccgc ggggctgtcc tgcgcgtacg agctctccaa ggaccccgcc 360
gtgagcatcg ccatcgtgga gcagtcggtg tcgccggggc gcggtgcgtg gctgggcggg 420
cagctggtt 428
  
```

<210> 16751
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E8

<400> 16751

```

ggctatctaa agcagaggaa gttcaacgac gcaatcatgg gcattctgcg agtccgcgat 60
ttgagcagcc ctccagatgt ttacagaagt ccacacacat tgagtcacaa agttacagat 120
gatgatttgt ttgttgtgct tggtagtgat ggcttatttg atttcttcag caatgatgaa 180
gttgttcggg tggtttatca atttatgcat gataatccaa tgggggatcc tgcagaatat 240
cttattgagc aacttatact caaagcagcc aacgaagcag ccgaagaatt gatgaggata 300
cctgttggga gtaggagaaa gtaccacgat gatgtgactg tcattgttat catccttgga 360
aatgcacaga ggacgatgac tgcacaaact tccttgtgaa agaatggaga ggtatagaga 420
cgggggctat 430
  
```

<210> 16752
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E9

<400> 16752

```
ctcccgggtgg gcgatgctgg gcgcgctggg ctgcgtgttt cgggagatcc tggctaagaa 60
cggcgtcaag ttcggcgagg cgggtgtggtt caaggccggc gcgcagatct tctcggaggg 120
cgggctggac tacctgggga accccaacct ggtgcacgca cagagcatcc tggccatctg 180
ggcgtgccat gtggtgctca tgggcttcgt cgagggctac cgcgtcggcg gcggcccgt 240
cggggaaggg ctcgacaagg tgtaccccg cggcgccctc gaccgctgg gcctcgccga 300
cgaccgggac accgccggcg agctcaaggt gaaggagctc aagaacggcc gccttgcc 358
```

<210> 16753
 <211> 482
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB83-015-Q1-E1-F1

<400> 16753

```
acgcctgccg ngtagcttcc gaagcctccg ggtagacaac gcgtccgcac acgcgtccgg 60
cggaactcag acctctaaga agggatcatct ttaatgcttt gtacaaccgc aaactggcaa 120
gcatgaaagc aggctactcg cacaaaaccg cttcaccttt cggggacatg ctggcttttc 180
gcaaggtcaa ggcaaggctt ggaggtcgtc ttcgcttact gatttcagga ggggctccgt 240
tgagtaatga gatcgaggag ttcattgagag tgaccacctg tgcatacttc atccaaggct 300
atggtttaac agaaacactg ggacctagca ctgtctgcta catcgacgac atggccctgg 360
tcggaagcgc tgggtgtgctt gccacctaca ccgaaattcg gctggaagaa gtgcccgaga 420
tgggttataa tccactcggc gttccttcgc gtggtgaaat ctgcatccgg ggaaaatccc 480
tc 482
```

<210> 16754
 <211> 405
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F10

<400> 16754

cccacgcgtc cggatcctcg ctccacggcc atggtgagga tgaagcaggt aaagatttcg 60
gtaaagaagg acgtggattc gtacacaatc cgcggcacca acaaggctcg ccatgtgggc 120
gactgcgtgc tgatgcgggc gtcggactcg gacaagcagc cgtatgtggc gggaggagaa 180
gatggaggcc gacggacgcg gcagcgtgcg ggtgcagggt cgctggtact accgccccga 240
ggaatccaag ggcggtcgcc ggcagttcca cggcgccaag gagcttttcc tttccgatca 300
tttcgacctc cagagcggcc acaccatcga ggggaaatgt gttgtccact ctttcaagaa 360
ctacaccaag cttgataatg tcgggcctga ggactacttc tcccg 405

<210> 16755

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F11

<400> 16755

ggcagatgtt ggggtactcg attccctagc gccagacgt ctttcctcgc cctgaagctc 60
gcctagctcg gccgtcctcc aagtttcgcc cagcgcagtc gttccgcta tgctcggcgc 120
cgggtttctg cgcgccggc tctgtcctt cgcggggcca gcttggtcca ggatgtcagt 180
attcctgtac gcggcctgga gttggtggac gacaggagag catgaactga tgaagtgatg 240
ggccggcgaa caaggaagcc caattgcaa tgggccggtg ccgagttggt tcgttgaagg 300
gtgggccggc gcttaatagc tggttgt 327

<210> 16756

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F12

<400> 16756

cggaacgctg ggcggacgcg tgggttttgc agcaaccagg aagctgactg aagataaata 60

tcagcaaattg ttaccacacc agatataata aaacttatcc agtaacatat actgatctcc 120
 ttattatttc acatgaaatg gtggcaaaat aaaacgtatc caggatgagg atggagtcaa 180
 ttcaaaactg ctgctgttcc ctgcatgcat aactcatctc ccagcaccca tccggtaçaa 240
 ctactggcgg tatagacaca tcatgacaaa gctttcatga gaagatçttt gaccttccga 300
 ctaaagtgtg ctatttgaat ctgctcacat tgagatagtt ctatttgcag acaacaaaag 360
 attgatatgg ataaagg 377

<210> 16757

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F3

<400> 16757

cactggtttc cacaaaataa gattgtcaat agctactacg tacttatgct attctgcatg 60
 tgatgtacga gtgtgcatct tcaagaatct ttaagttgaa tgggtcccata ataattattga 120
 taacaatgta aattgtatgt cctgtacgta ctttgggtatc gcgacatctc agtgtgcatc 180
 ttcaaggatc ataagttgaa tgttatcatt aaggtcagtt tgggttcagat 230

<210> 16758

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F4

<400> 16758

acgtgcagtc acgggtccgaa gctccgggtc gacaacgcgt ccgcttggag ctctcctttg 60
 ctgtgtttctg gccagctcaa gaaccactgc atctgcccc tataatcagt accttgggct 120
 gccgtattca gtgaagattt cttccttgcc ctcaaattct agtcaaagtt cactgtttga 180
 gtgtgcagtc cttgtgtact gctgggtataa ccctctctgc agcctagggt tgcctgtcc 240
 cagaaccctt ctccccatgg actagatgcg ctactgaca cactcctttc ccatgcttac 300
 atattctgta atttggggct agttattttg gagctcctca ctgcccttaa attccagcca 360
 agactctttg catatgcgaa gtgttcctga tgttcttaag tctacacagc tccctcccta 420

gccacacaaaa tttggtctgt acagaggctg ggcacaccat caactgttgt tgtg 474

<210> 16759

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F5

<400> 16759

gagagagaga gagagagagc gcgagcgagc gaagagggcg tgagagagga gggaggccaa 60

gccgtacgcg tcgtctctctg ctgtttctcc ccatcccttt cctgcctcgg cttgcacctt 120

caaccttact taaagctctg acctcaaact gaaagggacc tgcgaagagt tttttttgcg 180

gcagtacaat ggaggtattt ggcaaatctg tgattgctga gccagcaat gtgattttct 240

tgtccgcgat ccttaacaca gaacggtcaa accctagtca caagtgtgac aagaggtgcc 300

agagcgagcg ctttttgggg aacatgtacc gttgcaaact gactgaaacc actcatatct 360

gtgacaaaaa ctgtaaccag aggattctat atgacaacca taactcgctc tgccgagtga 420

gtgggcagct tt 432

<210> 16760

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F6

<400> 16760

aacacgcata gacagagacc tctaccgaga caagagggag tgagagagga ggggaagctaa 60

gccgtacgca tcttatactg ctgattctcc ccatcacttt gttggctctg cgtgcatcat 120

tcattgcttac ttacaactct gacctcaatg tcaaagggat gtgctaataa ttttttttgt 180

acgagtagaa tgttcgtatt tggcaaatca gtt 213

<210> 16761

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F7

<400> 16761

ttccccggggt caccgaagct tgcgattgtc gctgcacgcg ctgcgcagcc atccggcatc 60
cggcaagacg gcgagggagt atgtaccgat ccatgtatca tagtcgtgtt ccagcaccga 120
ttccatccaa atctaaactt cagcagtttc actgattcac ttagtacgta gtcagctaat 180
caaccttgat ccatacctaag ttttctgtca tgttggttag ttctctatt tccagtttac 240
acgacaacca tgacgattaa tttcgaatgg acggagttca tagctaagtt gcaatcacct 300
gctgtatagt gttccaagtc gtggtaatct atcttcttca ttatgatagg agattagcca 360
gtcagtgatga ctacagatcac acatgtaaca ggtgcaggta tcattggatt ccatatgc 418

<210> 16762

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F8

<400> 16762

acaggctaca gtccccgtct ctccgcgct tgccttgaaa acgaagaaac cctcctccac 60
caacccaatc cagctacatc cgtctgggtg aactccaggg ccaggagcag ttccgcccct 120
tcgttcgcat cacctacgcg gttcgatcca actggcagga aggaacgtga tggccaagac 180
gagctcgttc aagctggagc acccccttga gaagaggcag tctgaggcta atcgatcag 240
agagaagtac cctgacagaa ttccagtgat tgttgagaag gctgagagga gtgacattcc 300
tgacatcgac aagaaaaagt acctcgctcc tgcctgatctt acggttgac aattcgtgta 360
tgttgttagg aagagaatca agctcagtgc tgagaaagct atcttcatct ttgtgaagaa 420
cacccttcca ccaa 434

<210> 16763

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F9

<400> 16763

cccacggctc cggccccag ctctctcctt ctccctgtc gctcgctcgc catggacgct 60

ccgagcagct ggaagagtcc tgcgcgcgcc aagtgaccgg agaagctgcg agatcagagt 120
 agttgcttgc cgctcccggtg ccaccaaatt agattggacg tagctagcag ctagctgagc 180
 cgtagtgcgt agcggcagct aggetgctag ctcgatcggt atagctgcgt actagtgggtg 240
 tcgcagcaga agcagtagcc agcttcagta gccgatccgg tggtaaaagc aacttttttt 300
 ggacatggcg gcggaggag ccccggtgct ggtgaggcat gctggcggcg tggaggagct 360
 gcggcagct 369

<210> 16764

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G10

<400> 16764

atgctccaca tcccgagatg catcaagttt gtcagcacag ttaacaggcc caaccttttt 60
 tataaggtgt ctgagaaatc gccagttgga aaggttgtca ttgatgagat cacaaagttt 120
 ataagtgaat catacccaaa taatgagtct ggaattatat actgcttttc aaggaaggaa 180
 tgtgaacagg ttgcaaaaga actgcgcgaa aggggtatct cagcagatta ttatcatgca 240
 gacatggata tcgttaatcg tgagaaaatt catatgcgga tcgacacaca agggatgtga 300
 ttgggactgg ccgtcgccgt aaatcttcgc ctgcctcta catcttggac accttgcgtc 360
 atccttcaca ccatatcact acaactcatg tgcttgcgtc 400

<210> 16765

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G11

<400> 16765

aggtccaca tcgcgaaaag caccatcttc gtcaccacag ttaacaggcc gaagcgtttt 60
 tataatgtgt cagagaaatc gccagttggt aatgttgcga ttgaccggga tcacaaagtt 120
 tataagtga tcatcacac ataatgagtc tggaattata tactgctttt caaagaagga 180
 atgtgtatag gttgcacaag aactgcgcta aaggggtatt tcagcacatt aggagcatgc 240

agacatggag atcctgaatc ctgacaaaat tcataggcgg atcgacacac atcggatgtg 300
attgggactg gccgtctccg taaatcttcg cctcacctct atatcatgga caccttgcgt 360
catcgttcac accatatcac ta 382

<210> 16766

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G12

<400> 16766

acgcctcatc ctctcagtcg ccggcattgc ggtagccggc ctcgtcgggc gccaccgcca 60
tgtggcgctc gccgacggcg ccacgctcac agtggtcccg ctcatgccat aattcgtgct 120
cgtcgggtgcg ggcgaggcat tcatgtatat gggccaactc gccgtcttcc tgcgcgagtg 180
cgccaagggg atgaatacca tgagcacggg ccggttcctc aacaactgca cgctcaggtt 240
cttcttcagc accctgctcg tcacaatctt gcacaacgtc tcggcccaca ccggacgtga 300
ctgttagctc gcctacaagc t 321

<210> 16767

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G2

<400> 16767

cggacgcgtg gggaagatta ccccaacaga cctccaactg ttcggtttgt ttcgaggatg 60
tttcagccaa acatctatgc ggatggaagc atctgtttgg acatcctaca aaaccagtgg 120
ggcccgatat acgatgttgc ggcaatattg acctctattc agtccctgct gtgtgaccca 180
aaccctaaatt ctctgctaa ctctgaagca gccagaatgt tcaccgagaa caagcgtgag 240
tacaaccgca cagttcgtga cgttgtggag catagctgga cagccgacta aaactttatc 300
cgcttcgcca ggcggtgtaa ataaagcatc tgtctttcct acttgccggg tctgttttac 360
cgttagaaat cctcagctat cgttgtgttc ttgtggttca gtcccttgat gtactgatgc 420
ctgcggggtt tcc 433

<210> 16768

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G3

<400> 16768

aggcagccca agcgagcgcg ctgcaatggc ggactcgtcg gcgccgacga gagtgatgat 60

ggcgggtgaac gattcgtcgc tcaaggggta cccgcacccc tccatcagct gtcgcaccgc 120

cttcgactgg acgctctcta agctcgtccg ctccaaccct gggggcttcc acttcctctt 180

cgtccacgtt caggtccccg acgaggacgg atttgatgac atggatagca tctatgcttc 240

gccggaggac tttcaccaaa tgaagcagat agacaagata agagggcttc atttgctcga 300

gtactttgta aaccaatgcc atcagttagg gataaaatgc gacgcatgga tcagacatgg 360

agatccaaag gaggttatct gcagcgaagt gaagagagtc cagcctgacc ttctagttgt 420

ggga 424

<210> 16769

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G5

<400> 16769

cccacgcgtc cgcccacgcg tccgattcca tgcattctga tctgtatgta ctccgcccg 60

cgatggatga tgcattccatc tctacttggt ttctcacat gtacaacaat taatgcaaca 120

aattaagtac gtacttgag 139

<210> 16770

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-015-Q1-E1-G6

<400> 16770

cacaaacctg ctatcagcat tggaaagagt gtgaatcatt ttccattgtg ggtgattgaa 60

atatcagaca agcccaggca tagggaatct gaaccagcat tcaagttcat tggaaatgtt 120
 catggtgatg agcctgttgg aagagagggtt cttatgcac ttgcaaattg gctgtgtgat 180
 aactatctga aagattcact ggcaactctc attgttgaga acatgcacct tcatatactt 240
 ccgacgatga accctgatgg gtttgctctt agatggcgtg gtaatgcaaa caatattgat 300
 ctcaacaggg attttcctga ccaattcttc cccgttaaca acgatattga ctacagacag 360
 cctgaaacta gagccattat gaattgggta aagcaagaac acttcacggc ttctgctanc 420
 ttgcatgggg ggg 433

<210> 16771
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-015-Q1-E1-G8
 <400> 16771

cccacgcgtc cgatggagtc tctcgagctt gactcttttg ggctttcgat tgtcgcttct 60
 agcttggtta gcacgtactg tttatttgtc gaagacgtgc tggatatagt ctctgataca 120
 gtctgtgtgc atgaagacgc cgtctcacgg gttcaacggg taacacaggg cattttgggc 180
 actcaaaaca tccacggggc tgatggtgag attgacgagt acggtagatt tggggggagg 240
 ggaaggggga ggaggaggag agcaaatgtg cagggaaagt ctgggtggcg agaactccgc 300
 agcgaatcga agcatcgga ggatgaatgg gacctgtcga tgggctacag acacagattc 360
 gccatgacag cattcagtct agtgggtattg tattgccaga caagtacatg cattg 415

<210> 16772
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-015-Q1-E1-G9
 <400> 16772

acgacgcgca gcgagagcgc agcctgctgc gggactggct gctgcccgtg gagggcgcg 60
 tggcgctcag catcgtgctg gccttcgcgt ggcagaaggc cgtgcgcgcg tggccgcgcg 120
 ctatggtgcg cgtcactctc tgggtccagct tcggtgtgac cctggccgtg ggcgcgctgc 180

tcattgtgctt ctcgatgctg gccactgtgg ggctgggctg ggcgatgggtg gtgttctcca 240
 tcggcaccgg gctgtacgctg tgctgggtga cgcggcgtgt gggcttcacg gcgcgggtgt 300
 tcgagcgcgc ggtgcagccg gtggataagt tccacggttt gaatggcccc gcgtacctga 360
 tgggtggcggc cggcttcgctg tggatctcgg tgtgggtgctg ggcgggtgatc ggagctg 417

<210> 16773

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H1

<400> 16773

cgggtccact aagcgtccgg actaccctag tgggcaaata tgctcctcca gatatgctgc 60
 agttgctaac gtacctcgcc atgaagcacg acacacgagt gaagcggggtt gacactgtta 120
 aagcttacag ctttggagct ctcgactttg tagaggttga catcgaacta gcggaagata 180
 tgccgctgag agaggcgcac gccatcgggtg aatcgttgca ggagagaatc gacaagttgc 240
 ctcaagtcca gcgggcgctt gttcatatcg atttcgagag caccgataag cctgagcaca 300
 aagtcaggga caaactgccg tctactgac cctgacagat ttccgaatgc tcatgcatgt 360
 agtacattgt taagagatag tagctaatac cccggcgctt tcttcgaagg ttacgagcaa 420
 cgattccctt ca 432

<210> 16774

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H10

<400> 16774

cggacgcgtg ggcggacgctg tggggaaagc gtagagctag tcagagagag agagagagag 60
 agagagagag agagagagag agacgggggg cgggaggatg gctttgctgc agagccagag 120
 cctgccaggc attggctgct gcagcagcag catcgtcttg gcacgagcga ggggtgcagca 180
 gtgtctggca gcggcgtcgc actcacaggc gcccctcctg caggccaatg gcggcagggc 240
 gggcctcccc tctcctcctt cgatccttaa ggctggcaat gcgatcagct tcagccggcg 300

gagaaggaga gacctgcgcg tcgtcgcgga ggcgccacg gcggggacgg ccaatgtcac 360
 gccggcctcg tctggcggcg tcagcctcag cgacgtgct 399

<210> 16775
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H11

<400> 16775

ctgggatcgc cattgggtcc tcgatcctcg ttgggggttag gcacggagaa aattccttct 60
 ctgtggtagg gaacaaggac aagggtgcat ggattttctt caaaggtctt gtttagatac 120
 tctagfatgc atcacaatcc acaggtcttg tttagatact ctagtatgca tcacaatcca 180
 catatgttga ggtgcattgg aatgtaaaat taaattaatt tatactccaa tccatatcaa 240
 tacatatgga tttgggtgga tactagagta cccaaacaaa gcataaatgg ggcggttacg 300
 aggagacatt cctagcagga atttcccttt ttcattctga attaccctaa gatgggtaag 360
 agtttg 366

<210> 16776
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H12

<400> 16776

atttgattac agctggccat ggacgcgaag cagcatttgc tgccgcagtt ctgggagata 60
 atgccctaata ggagaaagca tggcaggaca caggaatggt agctgaggct gttttacatg 120
 ctcaggccca tggtcgtcca tcattaagga acttgggttat aacatggaac aagatgctac 180
 aaaaggaact ggatcacaca ccgactgtaa aaaccgatgc cgccgcgcga ttcttggctt 240
 ctctcgagga tccaaagctc acaagcttgg gggaaactga gaaaaagcct cccatcgaaa 300
 tacttccctc tgggatgcct cccctatctg cacctccgat cgtgattaaa aaggctggag 360
 caaaacctgg tctccctaata gc 382

<210> 16777

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H2

<400> 16777

aaggtatcaa cgtgaagtac ttctggggta gcacgtata ccacgtggaa gaccttcct 60
tccgcctcga ggacatgccg tccaactatg ggggcttcag ggaggccgtg aaggggttg 120
aggtcagaaa ggtgctggag gctcccgagg aggtcaagtg cgtgcccattg aagaatgtgc 180
tcgagccccg tgacatcccc acgcttgctg agctcgggct cactgcgcca ccagccatgt 240
cacaggactc aaaacctgct gttggctcta ctctcattgg tggtagagaca gaagctctgg 300
agaggttgaa gaagtttgct gcagaatgct ctatgcagcc aaacaaagta gacaaaagca 360
atacccaaga tagcatatat ggtgctaatt tctcttgcaa aatttctcca tggcttgcta 420
caggttgctt ctctccacgg gtca 444

<210> 16778

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H3

<400> 16778

cacacgcgtc cgggcccagg gccacgtgaa agtcaggcat tgttggcgcc caattgaccg 60
ccggacttgt cagtgatgcg gatcggcgac gtgaacgtgt ctggccgtgc gctcccccaa 120
tggcctcttc cgcggaagcg tggctctggc tcttcgtcg acctgtcgtg cgtctctgta 180
tctaattttg gatgctcgcc gacgccgcta gatagctgtt tggatgccgt gccgtgagaa 240
atggcgatcg tttttgtgcc ctcttgctcg agcagatgct tgtccttggt ataaaaaaaa 300
acctgcgag gtgttatata ggccagtgtg gggttctatc ttttctcca ataaatatgt 360
agccctttat aataactaat gaataaaaga taacgcaaga aaaag 405

<210> 16779

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H4

<400> 16779

caagtcagga tccagagttg ttccatacag cggggaacgg gatggtgact cggaagagac 60
ggctgagact gaggacgcgc ccgaagaatt tcagtcagct cacaagatg aggacttgtc 120
gaagatcagg atgcagctcg ttcagattga gaatcagcaa gccagtttgc ttaatcttct 180
ccagaaattc atggggagct ccagaaatgg gatacgttcc ttggagacaa gggatgaacgg 240
gctggagatg gtgttgacg agatatcccg tgatttggtt gcttcctcgg gaacgattcc 300
gaacagcgag cctgacacaa acgcttgctg cattctgagc ccaaagttct ggataacgca 360
tgacagacgt acgtacactt ccaggtaccc tatatcggac gcagcatact actccgaaga 420
gagc 424

<210> 16780

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H5

<400> 16780

cccacgcgtc cgcgtcggcg gcgtcgtcac caactgggcg ctctgtgtcca tgaaccacga 60
cacgcagtcc tgcattgacc ccaacgtcat ggaggccaag gtcgtggtca gctcctgcgg 120
ccacgacggg cccttcggcg ccaccggcgt caagaggctc caggacatcg gcatgatcag 180
cgccgtgccg gggatgaagg cgctcgacat gaacaccgcc gaggacgaga tcgtgcgctt 240
cacgcgcgag gtcgttcccg gcatgatcgt caccggaatg gaggtcgccg agattgacgg 300
cgcccccagg atggggccga cgtttggcgc catgatgate tccggccaga aggcggcgca 360
cctggcgctc aaggccctgg gcaggcccaa cgccgtggac gggaccatgt cgccgccgtt 420
gcgcgaggag ttgat 435

<210> 16781

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H8

<400> 16781

cggacgcgtg ggcgggcgcg tgggcacaac tgcagtgtaa gtagcgctac gcggccgggg 60
agagatcggg aaagcgggaa gcaaggacta tggcgtctct gtcagcctg tactgcgggc 120
acgccgccgg cggtcggatg acgatgagcc gaggtcggcg cacagcgctt gcgccagtga 180
ggcgtctgct gacgaagctg aggtccagct tcatcagacc gagcgtgctc cggccgatga 240
ctaaggcggc agcgatgttc gcctactacc tgcgcagcta ctcccagaac ttcgacgact 300
gcgctcatttc gtcgtcagct ccggcggcca ctgctcgtgc gtacctgcga ctccagtatg 360
attctgcttc ttctgtgt 378

<210> 16782

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H9

<400> 16782

ttcagaactc acaaacacgc ctgtccctc ttcgagaaat ccaacctact atccaaaccg 60
tctcccgtgt gatgcgtcgc cgtcgaagag tcaactcgcc tatccagatg cagacataac 120
aaaaatgaga gagtatctag ctaagagcgt cgccggcgat gctctgctcc ggacgcatgc 180
tggcctgcaa cggggtcttg cccagtcggc tccagctgcc gaggggagac gcctaacacc 240
tgcgtccatc agcgtcgcgc cggaagtggc gcgtcgtggc ctccgctgcg gagtccagcg 300
ggccccct 308

<210> 16783

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-A1

<400> 16783

cccacgcgtc cggcgcgcga cctctacaag gccggcgagc ggccggtggg caccgacgag 60
cgcgcttca tccgaatctt cagccagcgc agctgggcgc acatggcggc tgttgcccgg 120
gcgtaccacc acatgtacga ccgccccctg gagcgcgccg tcaagagcga gacgtcgggc 180

aacttcggtt tcggcctcct caccgtgctc cgctgcgccg acagcccagc caggtacttc 240
 gccaaaggagc tgcacagggc catgaagggg ctgggcacca gcgactcggg gctcatccgg 300
 gtggtggtca ccagggcgga gatcgacatg cagtacatca aggcggagta ccacagcatg 360
 tacaagcgct cgctcgccga cgccatccac gccgagacgt ccggcaacta ccgcaccttc 420
 ctctctccc tcgt 434

<210> 16784
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-A10
 <400> 16784

atttcaagcg aagtgttatc atttttagtg ggacaaagca atctgcacac aggttaaaaa 60
 taatatttgg tctctctggc atgaaagcag ctgaacttca tggcaacctt acacaggccc 120
 agcggcttga ggctctggaa cttttcaaga aaaaagaagt agattttttg attgcaactg 180
 atgtcgctgc tcgtgggatt gatattgttg gtgttcagac tgtaataaat ttcgcatgcc 240
 caagagatgt gaaaacttat cttcatcgtg ttggccgcac tgcgcgggca ggaagagaag 300
 gctatgccgt gacatttgta accgatgatg atagatgcct cttgaaagca attgcaaaga 360
 aggctgggtc acagctgaaa agtcgcattg ttgcagagaa acctg 405

<210> 16785
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-A11
 <400> 16785

gtaacttcag caagagctgg gaaaactaag aagacaactg ttgctgttgc acctacattc 60
 gtctgtgcta atcgtgctga gaagagagga gagttttaca caaaattaga agaaaaacgc 120
 aaggcttttg aagaggagaa actccaagca gaggccagaa agagggaaga ggaagaagaa 180
 gctctaagac aactgaggaa gaacttggtc gtccgagcaa aacctatgcc aagcttctac 240
 caagagggac cccacacaaa ggttgaactt aagaaggtgc ctccaactcg tgccaagtca 300

ccaaaattga cacggagaaa gagctgcagt gaaaccctc atacaccaga gggaggaaat 360
ggcagtgcag tatg 374

<210> 16786
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-A12

<400> 16786

accacgcgtc cgcccacgcg tccgctagcg ggagcttata atccacttgg aaaaggactg 60
gcaggtgctt acaattcccc tggaaacgga ctggcaggtg cttatggcgt gctttctgct 120
catgccgcac agccaatgtt gtatgctcca ggtgcttctc caggttcaac aatgatccca 180
atggtcctac cagacggccg tcttgtatac gtaccacaga ctgcagggca gcagcctctg 240
catgtgactt cgcctctgcc tcagcaaggc ggtcgtcgat tcggcggcgg tggcggatcc 300
agctccggcg gaaagcgaca gaggggagat gaccgtggca gtaacagcaa cagtagccgc 360
aggggctggc accg 374

<210> 16787
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-A2

<400> 16787

catggtatac cagaagaatg gatgcatgaa gctctggctc tttatcacga atactatgga 60
gataaacagg gcgcactgga gaatttgatt cagtgtggca actggaagaa agtccatact 120
atcttcgtga cttctgttgc tcattctatg tttctgtcat ctaaccatca ggaggtctgg 180
aggatcacaa gtgccttgga gaaccacaag tatgaaattg ctgactggga ccttggtgcc 240
ggaatataca tagacttcta cgttctgaag aactcaatgc aagaaagaaa tgccatggat 300
gattcgggtt cactcgagga gatgagttaa tcatgcagaa gtttctttgg ccgattaaac 360
gagtcgttgt tagtctgggg aagcaaatta cctgttgagt caagggcatg ctactcgaag 420
atggtagagg a 431

<210> 16788
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-A3
 <400> 16788

caggcacgcg tccggcaaag tccatattga ttgctgcaag aaaaaaatg ctgagattaa 60
 tcatcaccat actgtttaag tttcccatg cttcaatgtc tcgctggggc tgatgactta 120
 ggaagatgga ctcaagtgtc cgaaggctgg aagagaattt atgggatcaa aacatgatcg 180
 gaccttgga ctaaaaactc caaccaagaa aacggaaacc aaatacacia cggggctcat 240
 gaactggacg agcaaaagca catgccatag atgctgtatt actgacatac tgctctactc 300
 gccttgcaaa actacggcct ttatcctgcg tctctcgtcg gcttagagcc atttgaagag 360
 aatgccacca tgggcagcga agaagggggc gaagacaagg gattcaaccg ccataagctt 420
 gatgaggatg ttgaagg 437

<210> 16789
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-A4
 <400> 16789

cagacgcgtg ggggtgcccc agaacgcgct gaaactgggc gtgtgcgcca acgtgctggg 60
 cctcgtcaag gtgtccatcg gcaagggtgc caccgactcg tgctgccac tgctggacgg 120
 gctcgcgac ctggaggccg ccgtctgcct ctgcaccgcg ctcaaggcca acgtgctcgg 180
 cgtcaacctc gacgtccccg tcaagctcac cctgctcctc aactactcg ggaagagcgt 240
 ccctcagggc ttctgtgctg cctaataat atactagtgg ctagtctgc actagcttca 300
 gttgccatgc atatttgtga ttcttcttct ttcttcttag ttcaccactg tatgtacgag 360
 cctcctccg atgttttctt tgggtattgc ttcttctcta ctcttctct 410

<210> 16790
 <211> 431

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-A6
 <400> 16790

cggaacgctg ggcgggtcaa agatagcgcg ccgtttattg ggaaaaatcc taatcgatct 60
 acgcaacact cgtgaagaag ctatcagtgt tgccgaacca aaatttattg aagacgaagc 120
 tctattccta ccaacaagag aagcagagca ccagcagaag gttcatgtta gaaatgagga 180
 tggaagaaga tctagctcta cgagtggagaa gtcattggac caagaagatg aagatgatag 240
 agaaactaaa taccgattag atcccaagta tgccaatgta aggacacctg agcgccatgt 300
 ccgcactagg ctttacttca catcggaatc tcatatacac tcattgatga atgtccttcg 360
 ttactgcaat ttggacgaaa gtctacaagg agaggaaagc cttgtctgcc agagtgtttt 420
 ggaccgtcta c 431

<210> 16791
 <211> 198
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-A7
 <400> 16791

ccacgcatcc ggatacccta cgtacgtgta accgattcac cgaggtcacc gtttgtgtgc 60
 cgaaacaatt ggcaaggtac tcagtgtgtt ccgaatcgat catggcaaag aacaatgctc 120
 cggaacgacc agcgtgccgg caccaataac gagcggcacc agcacgagca ggaccatgac 180
 gatgtgctgc aggagcac 198

<210> 16792
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-A8
 <400> 16792

atcaacgcgc tgccgctgct cccaagatc ctggagctcg ttgggctcgg ctacaccggc 60
 tggttcgtgt accgctacct tctcttcaag gaaagcagga aagagttggc cgccgacatt 120

gagaccttga agaaaaaaaa tagctggaac agaataaacg ctcattggaaa gtttttagagc 180
 gtccttttctt ctttggaaaag agatctattc gatcggagaa ccaatgcaac tacttgagta 240
 ctattattgc ccatgtattg tgtgctgtat atcttctgta taaaaggaa gggtcgtttg 300
 tt 302

<210> 16793

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-A9

<400> 16793

cttcggttct caaaccaacc taggcaattc gccgcagcct ctcaacctcg cgagtcctga 60
 cctcccgag ccgcccaca gatggcacc aaggcggaga agaagccggc ggccaagaag 120
 cccgcgagg aggagccgc gacagagaag gtggagaagg ctccggcggg gaagaagccc 180
 aaggccgaga agcgctctcc ggcgggcaag tccaaggagg gcggcgagg caagaagggg 240
 aaaaagaagg cgaagaagtc cgtggagacc tacaagatct acatcttcaa ggtgctgaag 300
 caggtgcacc ccgacatcg catctctcc aaggccatgt ccatcatgaa ctcttctatc 360
 aacgacatct tcgagaagct cgcggccgag tccgccaagc tggcgcgcta caac 414

<210> 16794

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B1

<400> 16794

ggtggccagg tcattcaagt tatgcacaag tgattgttcc tcccggtt gttcaggtcc 60
 caggggtggag tccttatact gcgcaaattg gttcttctat ctccgaggac caacaacgga 120
 cacctggagc tgctcaatac tatactggct cagccaaag tggtagtagt ataggcgatc 180
 aaggaatggt ttcactctac caagcaggt ctgttctgt tggactttat gcagtacaga 240
 gggagaattt atttcagag agacctgacc aacctgaatg tcagttctat atgaagaccg 300
 gagactgtaa gtttggtgct gtatgcaagt tccatcatcc caggagcga ataattccta 360

ctcccaattg tgcactgagt ccattaggcc tacctttgcg cccgggagag ccaatatgca 420
gtttctacaa tcgct 435

<210> 16795

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B11

<400> 16795

cccacgcgtc cgccacgcg tccgcggacg cgtggggccc egggtgttct tctcgcacgt 60
caacctcta tgcttccgcy gctcccaacg tagcctcggc gccttcgcgc gctggctggc 120
cctcttcttc gcacacgtca gcatccgtga ccccgctcgtc gctgttttgg acggggatgg 180
agggaaacgag taccggaggc ggctgctgcc ttcgtaacaag gcgcataggg ctgcggcgt 240
cggcactggc gctgacacgc gcgtcgtcga cgttctccgc caatgcaatg tcgcggttgt 300
aagagtcgat ggatatgagg ctgatgatgt ggtggctacc ttaacagaac aggttttaca 360
gaaaggttac agagttgccca ttgcctcacc ggataaagac ttcaagca 408

<210> 16796

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B12

<400> 16796

caatccagaa gcgaagataa tatcttcccc gttctcgccg atggctgcaa caccaacacc 60
cactgccgcc gttttgctcg cgcgcccgt catcgcaactg tccagtgctt tcacctcccc 120
tcacgtgcyg cgggtgccga gcggtccctc ctccatctcg gtgcgccac tgaggagtcg 180
atggtgccag tggcgcggcc cgctccgatc gctgcccccc gaaggatctc cggccgagct 240
gatggaagag gactccaagt ttgtgccgtt gaacgcggac gatcccatgt acggcccacc 300
ggcgctactg ctcatcgat ttgagaaagg cgaaactgtc acgattcagg ctttctgaa 360
agagcttgaa ggtgaattcc t 381

<210> 16797
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B2

<400> 16797

cccacgcgtc cgcagcttcc tggtcggcga gtgggaactt gatctcactg ttgtgtaact 60
gcttgctgtt gtccctcttg cacaacatgg tacatggaga catggcatat ctttatctac 120
tttatataga aggagcatgc tttgccctgg tttctcactc ttgaacttgc atataagccc 180
attgatgtaa ggagagtgc acttatcata taaactcttt gatgagggtc ttgatgatgt 240
tctaactctac aaatgtgtta gaagatggcc ggatccctgtg tgactggcaa gatttaccat 300
ttaaaaacta tgcccccgga gaatgaggag aattctatcc gacttattac acgttctgat 360
gccacatttg agaagagcca gaactgagca cctacaaccc ttttaagtta agtaacacaa 420
gttgaattca tg 432

<210> 16798
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B3

<400> 16798

cccacgcgtc cgcccacgcg tccgcagaaa aatctgttgg cactgatgac atatgggaaa 60
aagcaacaat tgctttgaag aatgcattag atgataaggg ttgggaatac aagggttgatg 120
aagggtggagg tgctttttat ggtccaaaaa tcgatctaaa aattgaggat gctcttgga 180
ggaaatggca atgttccact gtgcaggtgg atttcaattt gcctgaacgg tttgacatta 240
cctatgtcga ttcaaactct gagaaaaagc gacccaatcat gattcataga gctatccttg 300
ggcttttgga gcgcttcttt ggtgtcctga ttgaacacta tgctggtgat tttccacttt 360
ggcttgcccc aaccagaca cgtattctac ctgtgacaga caatgagttg caatactgta 420
acgaggtggc ctc 433

<210> 16799
<211> 339

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-B5
 <400> 16799

```

cccacgcgtc cgaacctgga catcgtggac tgggagctga gcgaggagga gaggcagcgc   60
atcagcaaga tccccagcg gaagatcaac cagggccgctc gctacgtctc cgagcacggg   120
ccctacaagt ccttcgagga gctatgggac ggcgagatat gatatgagta aacgttacgt   180
cggcgccccg ctaggcggct gccttgctg acggagcaac gagctccccg ttgtgacagt   240
gagcggctgc ttttgtggtt ttatgccgtg ccatctgtgc aacaaaaagt gatgctttag   300
tgtcacagta tgtgtgaaat aaattaaaaa ggattttct                               339

```

<210> 16800
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-B6
 <400> 16800

```

cagacgcgtg ggttcgagag cctcactgac aagagcaagc tcgatgcgca gccggagctg   60
ttcatccaca ttgtaccaca caaggcttcg aacacgctct ccatcatcga cagcggcatc   120
ggcatgacca agtccgacct tgtcaacaac ctcggtacca gcgccaggtc cgggaccaat   180
gagttcatgg aagcccttgc tgctggcgct gatgtgtcta tgattgggca tttcggtgtc   240
ggttttctact ctgcctacct cgtcgccgag agggtcgtcg tgaccaccat gcataacgat   300
gacgagcatt acgtgtggga atcgcacgcg ggcgggtcct tcactgttac tcgtgacacg   360
tctggggagc agcttggcat ggggtactaag attacacttt tcctc                               405

```

<210> 16801
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-B7
 <400> 16801

```

cccacgcatt cgcagacgcg tgggggtgagt gaacaccagc cgtattgtcc cgactcctga   60

```

cccctaccga tctctgcctg ctgcagccat ggcgacctcc ggggcgctct ccaccgccgc 120
 caatcccacc cagctctacc ggtcccgcgc ttcgctgggc aagccggtga aggggcttgg 180
 cctgagcatg ggccgcgagc gcgcccagcg gatcattgtg tgccaggcgg taagcatcat 240
 ctccgcccac cgctccccg acatggacaa gcggaagctg atgaacctcc tcttcctcgg 300
 cgccatctcg ttgcccacg tctgcatggt cgtcccctac ggcgcttctc tcgtcactgc 360
 cggttccggg aacgcggcg gcgggacctc catgaaggac aagttgggc 409

<210> 16802

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B8

<400> 16802

gggttcttcaa gcagatcctc aacagcatcc tgcacgcgcc catgtccttc ttcgacacca 60
 cgccgtccgg caggatcctc agcagggcgt cgtcagatca gacgaacgtc gatctcttcc 120
 tgccgttctt cgtctggatg agcgtatcca tgtacatcac cgtgatcagt gtgctgatcg 180
 tcacgtgtca ggtggcgtgg ccgtccgtca ttgccataat ccctctgggtg atactgaaca 240
 tctgggtaccg gggctattac ttgtcgacat cgagggagct gactcgctc gagtcgatta 300
 ccaaggctcc agtgateccac cacttctccg agacgggttca aggtgtcatg accatcaggt 360
 gcttcaggaa ggaggaaagc ttcttgcagg agaacctgaa ccgggtgaac tcaagcctga 420
 ggatggac 428

<210> 16803

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B9

<400> 16803

cgagcgcgtg ggccgacgcg tgggcgacct cgaggccttc gccgagctca aggtgaagga 60
 gctcaagaac ggccgcctcg ccatgttttc catgttcggc ttcttcgtcc aggccatcgt 120
 caccggcaag ggcccgtcgc agaacctcgc tgaccacatc gctgacctcag tcaacaacaa 180

cgcatggggc tacgccacca acttcgtccc cggcaactaa gctcaacggc tatgctatgc 240
aacttcattg tcttttcggat cggagagggg gtacgtacgt ggattgattg atgctgcgag 300
atgcatgtgt gtcttttgtt tcacgttgca ttgcataggg aagtcgagat gatgagttgg 360
cgttgtacac taagatgaac catgtttgtg caatagtggg ggtttttt 407

<210> 16804
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-016-Q1-E1-C10
<400> 16804

acctcaccgt gtggcagctc gtcagcatcg agcctggggc gtggaccgag agcgtccggc 60
gagagtacgt gaagctcgtc gacggcttct tctccatccc ctcccccttc gcctccctcc 120
tcccgttcac cgtctacggc caggccctca aggcgaggaa gaaggtggcc ggagctcttc 180
gggaggtggg aaggaagagg atggacgaca aggcggagga cgactgtggc gccagtaaga 240
agaacgggga gaagaaggac atggtggagg agctcctaga agcggagggc gggagcttct 300
ccgtggagga gatggtggac ttctgctgtt ccctgctggg ggctgggtac gagaccacct 360
ccgtgctcat gacgctcgcc gttaagttcc tcaccgagaa aaccaac 407

<210> 16805
<211> 319
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-016-Q1-E1-C11
<400> 16805

aggacgcgtg ggcaacgaag tgcgagcgac ccacgtccac acgacacgaa ccaccaccac 60
caaccagcag ccgcaccacg caccagcgc aaagcgatgg cgtcgctcac catgatggcg 120
tccttcgccc ccgtggcggt ggccgcgccc tcgcgcccgc gcaccttcgc cgtgggtcagg 180
tccgccaaagg tcgaccgctg ccaggagccc gccacgctag cagcaaccga ggccaggccc 240
gccgccgacg gacgcgcgcg cgtcatgctc gcggctgctg cggcggggcg ggtagccatc 300
cgcggcgccc gcgcgccca 319

<210> 16806
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-C12

<400> 16806

gactagttct agatcgcggg cggccgctcg cgatcggttg tcgctgtgaa tgacgagtgc 60
 atgctcaagt tcggcgagct gcagtcgaag aggctgcacc gcttcctaac tttcaagatg 120
 gacgacaagt tcaaggagat cgttgtggac caggtcgggg atcgcgctac cagctacgag 180
 gacttcacaa acagcctccc cgagaatgac tgccgatacg cgatctatga tttcgacttt 240
 gtcactgcag aagatgtcca gaagagcagg atctttctata tcttatggtd cccatcctcc 300
 gccaaagtga agagcaagat gctttatgca agtcaaacc aaaaattcaa gtgggctcaa 360
 tggcattcag gtggaactgc aggctactga tgcaagtga atcagccttg a 411

<210> 16807
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-C2

<400> 16807

atccatgggg aaccaggtag caagagagta tgcaggcaat cctcagcaca tgacaccaag 60
 tattaccatg caatgcgaca cgagctcatt gatccccgga ggccagttca gtggtggttc 120
 ctccgtgcag actcaaactt cacggagctc caacatgctt gcgctgcggc caacgcagca 180
 gcctcaaaac ttggaattct ctgggcttgg tcagtccaca cagccttcag ggaccaaccc 240
 tttcgccgac tgggtctcggg tgcaggagag cagcgtcgat gagtacttga tggatgagat 300
 aagggcgacg agccaagagc tattggagaa cgatgagatg cagcatatgc tgcggttcct 360
 gagcgtgggc gggggcgccga cgggcctgaa caacgttgac ggctttcctt catacgcgtc 420
 tcctgcccc 429

<210> 16808
 <211> 435

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-C3
 <400> 16808

ctgcttctca ttctcccggtg cacttccagt tctgcccag ctgcagggct gctccaatgg 60
 ccaccttgct cgccatctct gccaacgtcg gctactgcaa ggcaccaacc ctgagctgga 120
 agggaagcgg agtaccaggc cggattgtgg tctccatgtc caccaccga agaggcctcg 180
 tctccctaag acgacgatcc cctcggtttc gcgctctacg gccgaatgcg gagacgggtga 240
 gcaaagtgat ggacatcgtg aagcagcagc tggcgctggc ggcggacgtg gggctgacgg 300
 cggagaccaa gttcacggac ctcggcgcgc actcgctgga cacggtggag atcgctcatga 360
 cgctggagga ggagttcaag atcaccgctg aggaggacaa tgcccagagc atcgccacca 420
 tccatgacgc cgccg 435

<210> 16809
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-C4
 <400> 16809

ggtcacgca cgcgtccgca cacgagtccg cccacgcgtc cggaccgcgg agcactcgg 60
 gaacgccgcg ctcgacagt ttgagcactg ctctgctgac cgcggctgcg ctgtcaatac 120
 ccacctcttc tccatgattg ataacatgga tcgacttctt gaggtataaa agcaagcagc 180
 acaggaaggg gactgggttc tatataccct tgctgacct tcaatggctg agtcaactaa 240
 gaaggcctgc gatttctggg gtgttccatc gactgatgtt ctacggccta ctgttgaagc 300
 aattgcttct catatgggtg ttgctccatc tggaattcca cgaagttctc ctagtgcaca 360
 gggtcagtta acagaggatt actttcgacg gattgatgct atcgatttta ccatcaaaca 420
 agatgatggg gctctgccac agaacctca 449

<210> 16810
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-C5

<400> 16810

gatgctgcct acttgettgc tgtcctcget gggaacgcca gccctccgc tgaggatttg 60
actgccattc tggagtcagt tggctgtgaa gttgacaatg aaaggatgga actcctgctg 120
tcccaactga gcggttaagga catcacccgag ctcatcgccg cgggcaggga gaagtttgct 180
tcagtcccat gtgggtggcgg tgggtgtcget gttgcggcag cttcacctgc tgctggcgga 240
gctgctccta cagctgaggc aaagaaagaa tagaagggtg aagagaagga agaaagcgat 300
gatgatatgg gcttcagcct ctccgactag gctgcacagt catcacagta ttgtttcggg 360
cagtgaacc ataggaaaac cagagtcatg tttagatttt aaccttggtt tatgttgga 420
agtactgc 428

<210> 16811

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-C6

<400> 16811

cacacgcgtc cggctgctgc tectggcctg ctacgacctc acggccacct ctgtcctgtc 60
ccactagact agctgcagct agegcctctt tccctcgccg ccgcccccta tccgagagcg 120
acgagcatgg cgcactccct cgcgcctcc ttctcgccg ccgcgcgcg gagccagggtg 180
acaaatgtga tttcaagccg gagctcgggt tccttcaga gccacaggat gacttctgta 240
tccatcggtt caagaccaag ttctcttcgg ttcatgattt gctgttcggc taaaacggcg 300
acagtcgaca aggtctgtac tacagtgaag gagcagctgg ctcttctcga tgggactgct 360
atcactgggtg atgcaactgt cggcgacctt ggtgctgatt cactggctac ggt 413

<210> 16812

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-C7

<400> 16812

atccggagac ggcacgcgac gcaactatcc tcgagagaga gagagagaga gaggaagccc 60
gtcgtttctgg aagtttccac gtcctcgccc tccgccccct ggtctgagtg gtctccgctc 120
caatggcgcc ctcactcctc gccgccatgt ccacctcgcc cttccgagcc agcagcggca 180
gcagccgcag gccgctatgc gctgcccaca cccgacgggc tggactgcgc gtgggcgcgc 240
ttaattacga ccctgccaaag gttgcgccgc atcacgacgc ggttctcgtc cgtcttgagc 300
agatccctgg aaaatctgct gagtgtgtgt 330

<210> 16813

<211> 185

<212> DNA

<213> Zea mays.

<223> Clone ID: LIB83-016-Q1-E1-C8

<400> 16813

caaggaggag gcgcgcgcgt cggcgccggc cgatggcctt gaccccgccg gcggggggccc 60
cggggggcggt tagtgggtcg tcatgtcgcc gccctgacct gcagaacctat gctcacgccg 120
cgcgcctcgc ctatgtgctc gccgtgctct acatcgccac ggatgcgctc atcaagcagg 180
atctc 185

<210> 16814

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-C9

<400> 16814

cccacgcgctc cgctagccta aacttgagga gaatgaaagg aatacctgaa ccacccaaac 60
cactcccttt cttgcgtgct cttgagagtt gctaacattt tggtagcaga gccaacatgg 120
atccaccaca cgagtacttc acgagggcat aagcaaaggc cggagtgatg gcaccaccgc 180
gagtggagga ttcttctgct tgggtgatgg ctaagatcga cgaaggcaac aaggagacat 240
acaagcggac gcactctata cagtccgcca tggagaattt gaagaatacc gtcaagagcc 300
tagtgactga tgggagtgac ttcaagaggt ggataccgga gatcgaagcc aaggtggtgg 360
agatgacaga agtgctgaag acactctagc tcaagtgaac acg 403

<210> 16815

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D10

<400> 16815

aggacgcgtc ggtcactccg ttcagtggat ctgcgatgag tcttgggtg gggctgtcta 60

tgccgagttc ggacactggg gcctatttca tcttacgggg ttctcagtcg ggaagtgtcg 120

ttctctcttc atcctctcgc tgctgagtat tgcag 155

<210> 16816

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D11

<400> 16816

aggacgcgtg ggcggacgcg tgggcgacg cgtgggcgga cgcgtgggcg gacgcgtggg 60

ctggggccacc cacctgagcg acccgctcca caccaccatc ttcgacacgt tcggagggtc 120

ctcttaagcc cgccattgct cgcgccgctc catcgaccgg ccggaacgtg ttcttggatt 180

aattaactac gatctctatg atcctgggga tggatcaacc cgtcgtgcgt ggtctcgttt 240

tgtgatgagt gggagagaga ggatggcaag atcgatcctt tgtaaatgga gatctcgtaa 300

attaggagag ctaccgctgg gacttgggtg tttgtaatat atgattcaac cattgatgaa 360

tcaatgcatt cac 373

<210> 16817

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D12

<400> 16817

atcatcgcg cccgttacgc cggcacccta ttgccttctc catcctctgc cgacgtcggc 60

gccttcgact cgtatgtcgg cgcgagacga tccgcggaag ttctctatca ccaatctttt 120

atgggaagtc atagtactgt tggccagaat gaggctttat attcatcgaa tactatggct 180
aaacgcccta ggcttgaaag cagccttcct atatatccac aacgaccggg gcaaaaggac 240
tgtgccttct atatgagcac tggaacctgt aagtatggag agacctgcaa atttgaccat 300
ccacaacggg ttccagaggg tgggggtcca aactggaaag aggccccgaa tggtgaagat 360
tcttatcctg agcgaccagg ggaaccagat tgtcctt 397

<210> 16818

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D2

<400> 16818

gatccagggc ccacctccca acggcgacaa cgcctatgct taccgcccgt ccattcatag 60
cgccatgctc tccccgtccc catctcatgc cccaccgtct ccccatccaa atgaaggggt 120
ggcgattgtt cctcaagggc catatccgta tgggtggcagt taccaacctt ctgagagcgt 180
cgggagggat gtactggatg aggtggagat ccgacagcta ctcatgacc atattggaca 240
tcgatgctgt tggggaagtc accctgcccg cacatggaaa attacctcca ttgaggactg 300
caatgtctat gttggcacct tggaaacctt catcgaggaa agatacatta ttacaaaaaa 360
ggagcccttt gaaagtggga atatagatgg aagagaaaaa ggtcctttgc ctggattgtg 420
ggaacttgat t 431

<210> 16819

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D4

<400> 16819

aagagagagt accaaattct caaggagctc agtctgagaa tgatcctaac aataccacta 60
tatttgttgg tgggcttgac cccaatgtca ctgaagatac cctaaaacaa gttttttctc 120
cttacgggtga agtcgtccat gttaagatcc ctgttgggaa gagatgtggg tttgttcagt 180
tcgttaccag accttctgct gaacaagcgc tgctaagtct gcaagggggc ttgattgggtg 240

cacagaatgt tgcactttca tggggtagaa gcctgtcgaa caagcaggct cagcctcagc 300
 aggaatccaa tcaatggggt gcggctgctg gtgctgggtg ctactatggg ggctatggac 360
 aaggttatga ggcttatggc agtgggtatg cacaaccca ggatcctaac atgtatggtt 420
 atggcg 426

<210> 16820

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D5

<400> 16820

cacacgcctc gtcgtgaccg aggcagccaa atgccgtatt caacatctgt ccgagtcgac 60
 accttcgact gctctatccg cgccagacga tccgggggag ttctctagca cgacgccttt 120
 atgggaactc ataccactgt tggcgagact gaggcctaat atgcagcaac tagcatggct 180
 acacgcacta ggcttgaaac caggcttcct atgttgccag atcggccgga gcagcgcgac 240
 tgtgccatcg atatgacgca ctgatacctg tatgtatgga tagaccgca aatttgcccta 300
 tccacaagcg gggttccaaa gg 322

<210> 16821

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D6

<400> 16821

aagacgcgtg ggtggtgatg gaggagacga tagacgacag tgagatgagt ttgtcgaaca 60
 tgggtgctggg cttcctggaa gatttcgaga gggacgagcg acggccggag aacgacgacg 120
 acaacaacga ggaagagggc tccagcggcg gcgacaccgc cgagagcaag gccttctggc 180
 agaccaacaa cttgcagctg cgcgaggcac tggccaaggg cagcccagcc gagagcagga 240
 tccgcgcgga cacggaggag gccgtcaaga gcatgcgcgc cgcggcctgc tctgtctcct 300
 gcacggggcg gcccgccgcc cgggactgcc ggccgtgcat gcaccggcac gtcgccgacc 360
 ggctgcgcca cgccggctac gacagcgcgc tctgcaaata caggtggacg cgctccccgg 420

a

421

<210> 16822
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D7

<400> 16822

catcgactcg tctcgctagt ggctgcccta ctctgtgctgc ttgccctcgc cgccgtttcc 60
tccacgcgca gcgcacaaaa ggagtccgcg gctgacaacg ccgggatgtt ggcaggcggc 120
atcaaggacg tgccggcgaa cgagaacgac ctccagctcc aggagctcgc gcgcttcgcc 180
gtcaatgagc acaaccaaaa ggccaatgct cttctggggg tcgagaagct tgtgaaggcc 240
aagacacaag tggttgctgg cacgatgtac tatctcacta ttgaagtga ggatggcgaa 300
gtcaataagc tctatgaagc taaggctctgg gacaagccaa gggagaactt caagcagctg 360
caggaattca ggcctgttga agagggtg 388

<210> 16823
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D8

<400> 16823

cccacgcata cgaaccagct tgggcgcgtg gtacgcgacg agcccgccgc tggctcctgga 60
gctcttgggg tccagccaca ggtggaggtt ggcgtccacg taccacgacc gctgcgcgtt 120
ggtcaacgcg aaccgcagct cgtgctcctc gccgtccagg aggctgccga ggaagggcgt 180
gagctcgatg tcgtaggtgg gcatgttgaa ggagccgatg ctggtgatgg ggcgccagat 240
gagcggggtg atgcgcgcg tgtagatcac cgggaacggc cacacggcgc ccaccacgtc 300
gccgtcgagc aggacggtga cctcgcggaa cggcgcgttc tgctcgggcg tgttcatgta 360
ccagaactcg tcagcgtcgt gggaccagac ttatacctcg aggaccgcgc gggacgcgtt 420
gcgcgg 426

<210> 16824
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D9

<400> 16824

```
agccatggac cacgacgcct acctggggaa cttggtacag ccatccatgg tatcagaata 60
tgacctggga ggagaagggg acctgttcaa agctccagaa gccatcatcg aggaaccgct 120
gctcagcctc gatcctgtcg cagctgcctt ttcaatgatg gctggcaatg gaagtgtgtg 180
catggatcaa actattaagg acgcaggcac cggcaccatc caaaatgacc cctcctgag 240
tgagggtgctg tacgagtgcg agaaggaact catggagaag tccacaatcg aagagacaat 300
ttctgaactt atggatgtta agattcctat gctgcaagtt gaagaaatcc caagccaagc 360
tgaacaggtt cttatacaga accagcagct cccg 394
```

<210> 16825
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E10

<400> 16825

```
gcagtgcaaa tacggccgaa tctatttcat atgataatat atgagagaga attacaacgc 60
atggaaaaag aaatccattc agacaagata gatgcaacca ctcaattgtt tttttttcct 120
ttccattgct tgatggcacc tgcacccatg ttttcttccc agcatacagc atcacatacc 180
aagcaggctg ggatcttcag gccagaaga tgccatgggc catggcacac ctctgctag 240
ctgacttctg tcattgggag tggtcaccgt cagcctcttc ttoggaagaa cgctgcgaac 300
cagcagacgc ctctgccgat ggcaacatag ggtcatcacc ttctctgctg tctgggtgctg 360
tggcctcagc atcaccactg ccactgcttg ctgcctccg ggg 403
```

<210> 16826
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E11

<400> 16826

gtcaaattaa tttgcgatta tacaggttag cacagtttct tttgatccgt attggtccca 60
attaatttgc aattatacag gttagtgcag tttcttttga tccgtgttgg tcccaaccaa 120
attcagatga aactgaagaa aatgtcatgt atcgctttgg gtcagttgga caggataccc 180
aactgcttct ctgggatctg gcattggacg agattgctgt cctctacgc catccttccg 240
gtgggtcacc gacattcagt agtgaagcc cttctgcaca ctgggataat gcatgccctc 300
caaccggtgt tctccaacct tctccacgga tgcgagatgt gccgaagctc tcacctctcg 360
ttgcacaccg ggtacatgta aatccccaac cgg 393

<210> 16827

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E12

<400> 16827

cccacgcgtc cgctgatctc aagcctggtc aactaacaga tctgaaatca ttagctgtca 60
ataacaattc atttgcttat gtcgccgtta agaaatctat ccataggtat ctcataaagg 120
attctaacta tcttacgaca gcggtaaata aattcgcgaa ttatgttaac ctttccagtt 180
cagagaaaga cttgttagaa gaaccaacat gtccaaaggc tcttggtgat attgttgaat 240
cttgtgttgg tgctgtgctt ttagattctg gcttcaacct gaacctggtt tggaagctaa 300
tgctaattgt tcttaaacca atattgagct tttgtggcat gcacatcgat cctatgagag 360
aactccgaga aacttgtcaa tataatgggt ttgac 395

<210> 16828

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E2

<400> 16828

gaactccatc agatccaacg ccaccagcta gcagcagcag cagcagcatg gccaccacca 60
gcacgcctcg cctcgccacc ctctgggtgc tcctggcggc ggcgtcaccg ctgctgagcg 120

cagctcaaaa ggccgccccg aatgctccgg cggcggcgaa ggcggcgcca gggccggcgg 180
 cgtcgtcgtc gtccggagcg ggcggggggg acgcagtccc tctcacatat gtgaacaagg 240
 cgctcaagga ttaccagttc agcgagttca agcagctgct gcacgacacg cgcgtggaca 300
 cgcagatcaa cgcgcagctg acggacacct acaaagggct gaccatcatg gagcccagca 360
 aagccgcctt ccacaacatg 380

<210> 16829

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E3

<400> 16829

cacacgcgtc cgcccacgcy tccgcccacg cgtccgctta acaataggac ctggggattt 60
 cttggttcat catgctattg ctctaggttt gcatacaact acattgattt tagtaaaggg 120
 tgcttttagat gcacgcgggt ccaaattaat gccggataaa aaggatttcg ggtatagttt 180
 tccttgcgac ggcccagggc gcggcggtac ttgtgatatt tctgcttggg acgcgtttta 240
 tttggcagtt ttctggatgt taaataccat tggatgggtt actttttatt ggcattggaa 300
 acacattaca ttatggcagg gcaacgtttc acaatttaat gaatcctcca cttatttgat 360
 gggatgggta agagattacc tatggttaaa ctcttcacaa cttattaatg gatataatcc 420
 t 421

<210> 16830

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E4

<400> 16830

cgatgggtgg actggtacct catctgttgg taagcgtaaa tatactgtct gggttgtgag 60
 agagtcattt tgtattgtaa tatacatttg taacagatac aaacttagtg attaaacttt 120
 gagctggctg cactcttttt tectttctag ggtttctcac aagggtgagt ttacctaga 180
 aaggttttta atgaggcagc attgcacaaa acagctcatt tattatattt gtctatattt 240

tctactgttt ttttaactttg gtt

263

<210> 16831

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-016-Q1-E1-E5

<400> 16831

ctgatatggt gacctgcgaa aatgtcatgg ctgcctgtgg tcacggtggc ctccatgggg 60
atgccagaga agttcttgaa tatatgacca gagaaggaat ggtgcctact gcagatgcct 120
acactggcct gggtgaggcc cttggccacg cagctatgta tgaggaagcc tatgttgctt 180
tcaacatgat gactgaaatc ggtagcttgc caactcttga gacctacaat gctcttgcatt 240
ttgcatatgc taggggtggg ctcttccagg aggetgagge catcttttct cggatgagta 300
acaatgctgg cattcagaaa agcaaagact catttgacgc cctcatcgaa gcatattgcc 360
agggctcccg attggatgat gcagtgaagg cgtacatgga gatgcgtana tccaggttta 420
atccagat 428

<210> 16832

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E6

<400> 16832

cacaagtgtt gcaagggatc ctgggacctc acaagtccat gtgtgaatga tgcacatatt 60
taggggggaga agtgcctaaa cttgaccctt tgagactaaa ctttgtgttt gaggatactt 120
gatgtagtct caaaggtgca ttgaaagggg aaggtgaact tggaccatgc aaagacttcc 180
actgcactcc gatattagtg tactcacctc caagttcata cttatgctct cattgccttt 240
ttgctcttaa ttgacatttt ggtaacgcaa tgggggttaa gggccaaaaa tgatcctgtt 300
ttggtgctta atgccaaagg gggagaaatt aaggccaaag caaatggatc aactaccact 360
tgtgaatttt gaaaacaaaa gagttagaac ttttgatttg tccaaaatac tcttattgca 420

aaatttggt

429

<210> 16833

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E8

<400> 16833

cactgtcact gccagcctcc ccttcgcttc gcttagctcg ccgttaccat ggcgacctcc 60
accttctctc cgcgccccgc cagcctcaag cccctgcggg cagcgccaa gcccgccggc 120
ctccagctcc aactcctccc ctccccgcgc ctcgggctcg cctgcgccac cgtcgccggg 180
gaggcgccgc ccgttgagca gcgggacgag gtggagccgg cctccgccgc gggatcgaac 240
gggactgccg ttaatgtcga ggcgtccgcc gcgaagcac agtcccagcg cgcgcccgcg 300
ctgggtcccgg acttccgcga 320

<210> 16834

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E9

<400> 16834

aggacgcgtg ggcgagagca aatgctatct tcaaccacac tccgaccgcc ggcgcccggc 60
ccggcgccgg cacacctcac catctgtctc tcgcccgcag cgtggcgggc tgcgcccggc 120
gtgcgcgcgg tgcgggacta cgactccatc ccgaagcggg agcccttcag ctccagccgc 180
agcatcctcc acgagttcct caggcaggac aagcccctca tccagcgcac caaggaccag 240
atcacagatt attgcacggc catcgacggc gatgagtgtt gcagctgttg ggacgcttac 300
tttgcaactgg ataaacttga gcaggagcct gccaaaggtag aattcgcaag gctgggtcaag 360
gac 363

<210> 16835

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-F1

<400> 16835

cgaagaaggc cgggggcggg ggcgggcggc gtgggtcgcg cctacccgag gcgccgggca 60
acctgttcga cgacagcaag cgcgggatgc ccaaggacgg gtggacgttc gagctgccgt 120
tcgggggtgga cgtcttcctc gtctctgtct ccttcacgct catcaccacc atcatgttcg 180
gcaccgcctt cctcgtgtgg aagctcggcg ctatacactt caacgagtac tagcctttag 240
actgtctcta cttgattggg ggataaaggg cgattatgca gtgattcttg cagtgtctaga 300
cgagagaact gtgtgcattc gtaatgtact gtattgacca cagacactgg tctgccggag 360
attttcgaga gaacgtagaa atgtgtgatt gcgcgaaaca ggtgtcctgt tatgtagaat 420
taataaatat 430

<210> 16836

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-F10

<400> 16836

ggcggtagtg catgccctcg ggagtgggat tacgccaggt tcagggccat cgcagacaag 60
tgcgggggcca tggtgctctg tgacatggct catatcactg gtctcgttgc tgcgcaggag 120
gctttgaatc cttttgaatt ctctgatgtg gttaccacta cgaccacaaa aagtcttcga 180
gggccaaggt ctggtatgat tttctacagg aaggggccat agcctccaaa aaaaggccag 240
cctgaggggtg ctctgtatga ctacgaggac aagatcaact ttgctgtgtt cccgtcactc 300
cagggggggc ctcacaatca ccaaattgct gctctagctg tagccttgaa acaggctatg 360
tcacctggat tcagcgcta tatcc 385

<210> 16837

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-F11

<400> 16837

aagcagcaca ctcagctatc cagcaaaaga gatcgagagg caggagtcac ggccaccgtc 60
agcgccgcgc tgggtgaccac catcgttgcc cgcgcgcgga tcgccaggcc caatgctcta 120
gggctgcctg cgctgagggc gaggagcgag aggggtgcggg gcagctacgc caaggacgcg 180
gccccagtca gcaccaaggg cccaggcgcg tcgctgctcg ccgcagcggg cgcggtgatc 240
gcgtcggcgg ggcccgcgct* ggctctcgtg gctgatccca tgtccacggg gggcaccggg 300
ctgagcctcg ggctcagcaa caaccttgct ggggtggctc ctctggggcg gtcttcgggc 360
t 361

<210> 16838
<211> 386
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-016-Q1-E1-F12
<400> 16838

gaatccgagg gttcaagcga ccgacggcga acatggcggc ggacggcggc ccagcgacgt 60
cggcgctgga agaggccctc aagcccttcc aggaaagagc ctccgaggct gagatacgca 120
tagcgaagct ggaagccttg ctgtacaaca aagatgggtc gagcgggtgga tccgaggcaa 180
cttctctctgc cgtgaaggat ctccagtcga agctagatgt ggttactgca gaatgcttga 240
ctgaaaagga gaagaacaag aagctgacca tggagaacga gaagctccag taccgcatga 300
cccatctgat ccgtgcgata aaagaggcgg aatcgagata agaacagccc ggcgaggccg 360
atttcaaagc ctgatgtcca agtggt 386

<210> 16839
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-016-Q1-E1-F2
<400> 16839

caagatctcc gaagatgctg gctgagtcaa tggcactaag aaaagatggg gggaacatcc 60
cctgctggac agtcatactc ggaagaaatc cgtccagggt gtgcgtgtgt tgctgtgcca 120
agagtactct tgcgagaaga tgtaacagaa ccgaaaactg gcatcaagtt cccactcta 180

cttaaagaca attccaatct gactacagag gtacactgcc cccagttgac acatgcatct 240
gatgggttaa ttggcaggtc cttgttgga tgggtttcag aagcatgcga ataagtaggg 300
ttaaagatct gaatctttat gcctttggat tatatataca acctgattct gtttgcaaaa 360
agctgggtcc aaagtatgct tgtattccag atgctgagtt gaatgatcac ccagatttct 420
atgaag 426

<210> 16840
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-F3

<400> 16840

caaactcatc cgcccaacca gaccgcacg acacgacacc aagtcgagga gctcgagggc 60
accaatcatg gacgggtgtc actccaacgt cgtcggggtc aagcccgccg cggcagtgcc 120
gcaagccgcc gccgcatcat ctctggcaaa accggtgaat gtggtcacgt tccgacaggt 180
cgacgtaccg atcagtcag tctgacggc gtcgtacacg tcccgacatc acagattcag 240
ctaattggcac aattttcaag tccttactcg aaaggattac agacacatac gagcattgcg 300
agattaagat gctg 314

<210> 16841
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-F4

<400> 16841

caaactcgtc cgcaacgact catcgatcga gacgagcaca cactgcacgc agctagctag 60
gatcatcaac agcggcgggc atggcggaact ccatgatctc ctcgatcatc ctggctgtgg 120
cgctcacgg cctgacgccc ctctgccgcc gcgcctcctc cttegacgtc gtcgctcca 180
agaagatgat cactcagcgc tagaccctac gggattgtgg gtggacttac cgtctacatc 240
tactcgatca gtataaaggg ccatggc 267

<210> 16842

<211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-016-Q1-E1-F6

 <400> 16842

 cccacgcatc cgaacgtgga tgtgtcagtt gttgacctca ctgtcagaat cgagaagggg 60
 gcctcttacg aggaaatcaa gaaagctatt aaggctgctt ctgagggccc actcaagggt 120
 attatgggct acgtggagga ggatctgggt tccaccgact tcaccggtga cagcacgtcc 180
 agcatcttcg acgccaaggc cgggattgcc ctgaacgacc acttcatcaa gctcgtctct 240
 tggtacgaca acgactgggg ttacagcaac cgcgtcgtcg acctgatctg ccacatgttc 300
 aggacccagt agagagagat atttctgcct ccctatcgag ggtcgtcccc gatggccttt 360
 ggttccaaac catctttgct gcttgt 386

<210> 16843
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-016-Q1-E1-F7

 <400> 16843

 cagacgcgtg ggctagaatt agagtcttat gggcaaggac actattgctg atttactaac 60
 ctctataaga aacgcagaca tgaataaaaa aggaactggt cgagtagtat ccacaaatat 120
 taccgaaaac attgttaaaa tacttctacg acagggtttt attgaaagtg ttcggaaaca 180
 tcacgaaagt aacagatatt tcttggtttt aactttgcga catcatagga gaaagactag 240
 aaagggaata tatacaacta gaaccttttt aaagcgtatc agccgacctg gcttacgaat 300
 ttatgccaac tatcactgaa ttcctaaggt tttgggcgga atgggaattg ctattctttc 360
 tatctctcca ggta 374

<210> 16844
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-016-Q1-E1-F8

<400> 16844

gatggaaaca aagatattgg acttcctgta ctgctggtat tgaacaagaa agatctcata 60
aaacccggag aaatcgcaaa gaaacttgag tggtagcaaa aatttactaa tgttgatgat 120
gttataccaa taagtgctaa atttgggtcat ggagtggatg atatcaagga gtggatattg 180
tcaaagctcc ctctgggtcc tgcttactac cccaaggata tagctagcga acaccctgag 240
agattttttg ttggtgaaat agtgagggaa aagatttttg ttcagtacag gcaggaaatt 300
ccttattcat gccagggtta tgttggtcagt tacaaaagtc ggcttgctgc caaggacttc 360
attcaagttg agatacttgt ggagaaagaa tcacaaagag gcattatact aaggaaggat 420
ggcaaaagca t 431

<210> 16845

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-F9

<400> 16845

acaccaccga gcccatggcg gaccagctca ccgacgacca gatcgccgag ttcaaggagg 60
ccttcagcct cttcgacaag gacggggatg gttgcatcac gaccaaggag ctgggcactg 120
tcattgcgctc gctggggcaa aatcctacag aggttgagct ccaggacatg atcaacgagg 180
tcgatgctga tggcaacggc accatcgatt tcccagagtt tctcaacctt atggctcgca 240
agatgaagga caccgactct gaggaagagc tcaaggaggc cttccgtgtg ttgacaagg 300
accagaacgg cttcatctcg gccgccgagc tccgccatgt catgacaaat cttggtgaga 360
agctaactga tgaggaag 378

<210> 16846

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G1

<400> 16846

aattgagata gacaccaa atgtgccgat caagcccatt ggtcgaggag cttatgggat 60

agtttgttca tccattaatc gtgaaacaaa tgagaaagta gcaataaaga agatacacaa 120
 cgttttcgac aaccgtgtgg atgcactacg gaccttgagg gagctgaaac tccttcgcca 180
 tctccggcat gagaatgtca ttgctttgaa ggatataatg atgccaatac acaggagaag 240
 ctttaaggat gtgtacttgg tatacgaact catggatact gatttgcacc agataatcaa 300
 atcacctcag ggcctttcca atgaccactg ccagtatttt ctttttcagt tgctccgagg 360
 actcaaatat ctccattcag cagaaatact ccacagagac ctaaagactg gaaacctgct 420
 ggtgaatgca a 431

<210> 16847

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G10

<400> 16847

gtggtgcagc tgcctgcctt cagccttccc tctctttcgc gacccccccg gagccggagc 60
 agagatcgcc agctctaccg gcgcggaggc atggcggggg ccggagacaa ggtggactac 120
 gtcttcaagg tgggtgctgat cgggagactcg gcggtgggca agtcgcagat cctcgccccg 180
 ttgcggcgca acgagttcag cctcgactcc aaggccacca tcggcgctga gttccagacc 240
 cgcacctcgc tcatcgacca caggagcgtc aaggcccaga tctgggacac cgccggccag 300
 gagaggtaca gagccgtgac tagtgcttat tatagaggcg cactgggagc tttgctggtc 360
 tacgacatca ccagacggca gagcttcgat cacatacccc gct 403

<210> 16848

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G11

<400> 16848

aggacgcgtg ggcgcggtct aagcttcgaa tcggcgcatg gaggcagcag tagccgcggc 60
 actcatgtcg cccaccgccg cagctccctc gtggcgggcc gcggccccgg gcgccacctc 120
 gctccccctt gacgggaggc gcagctttgc cttcggtccc atcaacggtc tcgggcggga 180

ccagctcacc tctaggacta cgacgcgaag cagtgtggtc agggcctcct gttccccctc 240
ggagtctctg ccaccgtcct catcaatggc gccgctcagg tatggatcgc ccgcggggca 300
gctaggctcc cagattcgtc acacgcatcc gcacctagtg catggcgccg cttaccagca 360
gatcgaactg ctccagag 378

<210> 16849

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G12

<400> 16849

aatcgatcca ccgaggtttc ttgtgcgtgc cgccatggcc atggcagtag ctcaccttct 60
tcctcagctc tccgccgaag gcaatggagc tatcaggaac agaatggcca ttctcttgat 120
tcttcagctt tttctcttga cgttcttttg ttccataact gattcagcgc taggcgtgga 180
tggagcggcg tcgttcatct tcaccaacgc ctgcaagtca cgcggtgtgg gtgggcgcgc 240
tccacgggtgc cagctcgccg ccgctcgcgc ggtcgggctt ct 282

<210> 16850

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G3

<400> 16850

gtggagagtc atcttggaca ctteggttct atgagtcctt ctttgtggaa tgtgtgccag 60
tgattttgtc agatgaagtt gagcttcctt tccagaatgt gatcgactac agtgaaatct 120
cgataaagtg gccgtcgtcc aggattggac ctgaactcct tgagtacctt gaatcaatat 180
cagatgaaag gatcgaggaa atgattggtc atgggcgtga gatgagatgc ttgtgggtgt 240
atgcagctga tactgagccg tgctctgcc tgcgcggtat cctgacggag ctgcagaaga 300
aagtgcgtcg gttccatcaa tcggcggaac cattctggct gcacaacaga acaattgtga 360
atagagatct gattgagttc cacagctgga ggacgcctgt tccgttgcca tgaaccatgt 420
attctgattt c 431

<210> 16851
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G4.

<400> 16851

```
ggtcgagatc acgggtccac gcacgcgtcc gcacttcaac gtcggttgca agatagaaaa 60
agggtcatccc tctaacacca cgccgctgcc gtttgtgtgc cggcgctct cctcacaacc 120
cgtacgccaa cgtctccaat ctcgtagact ttctgtgtca tcatcatcga cggcttcccc 180
aagagcgtcc gctgtggagg ccctaacatt ccggcgggat gccatccgc aagcgggagc 240
caagcggcgg taggatgagg cgcgactcag cggacgcagt atccgtatgt gactggtaat 300
tcattcattg ccttgaaata caacgatggg gtgatcatgg catgtgacac tggagcctcg 360
tatggatcaa ccttgagata caacaatgtg taacgcatta 400
```

<210> 16852
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G5

<400> 16852

```
cacagagaga cctacccatt ggtatactag gaagccttat agcatgtgtg ttgttatacg 60
ttgtgttatg cttggtcatt actggaatgg ttccatatac attactcggg gaagatgctc 120
ctttggctga ggcttttgcg gctaagggcc tgaaatttat tactgtattg attagtattg 180
gagctgttgc tggacttaca acaacacttc ttgttggctt gtatgttcag tcacgtttgt 240
actttggact tggaagggat gggcttttac cttcagtatt tgcgaagta cacccaacaa 300
ggcatactcc tgtacagtct cagatttggg tcggttgtgt tgcagcagtc atggcaggcc 360
tctttaatgt gcgtgtgctc tcacatattc tttccgtcgg cactctgacc gggtattcag 420
ttgta 425
```

<210> 16853
 <211> 428
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G6

<400> 16853

cccacgcgtc cggagccatc ttggaaactg ttcttttggg ggccatgtat gaggttccag 60
acgaaaaaac aggaaatgag cgagttgacg ctgttggtgt ggatgaggag gcgattgggt 120
ccgttgatag gccaggttgt ggggctaaaa ttctccgagg ggatggtgca ttggaccagt 180
acataacaag aaccaatgtg atgaatttac aggaaactaa cgatgggttg gccggggagc 240
tcgaggaagc gtacatgctg tctagaattg ttagcttgta atttgaaagg ctggggagga 300
agcgtatatg ctgagttctg accaacttcg tacatcgtgt aacatgtcta cccaacaca 360
ggccggctac tttttgctca caaaatcacc tgtactctgt ctccattcct gttaagctct 420
aacgagca 428

<210> 16854

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G7

<400> 16854

gacgtatcac acggatctcc tggacattct gatataccgt ctgttgctgc tgttgtagt 60
tctcgtgaat ggcctcttat ctcgaaatac agagcatctg tccgcaccca atcaccaaaa 120
atggaaatga ttgactcgtt gtttaagcca cgggaaactg atgacgatgg tctgattcgg 180
gaatgtctga ttgacttcta caccagttca gggaagagaa agcctgacca agtcatcatc 240
ttcagggacg gtgttagtga aagtcagttt aatcaggtgc tgaacattga gttgcaacaa 300
atcattgagg cttgcaaatt tcttgatgag aaatggaatc ccaagttcac attgattatt 360
gcccagaaga atcaccacac taaatttttc attcctggaa agccagataa tgttccagcc 420
ggcactgttg t 431

<210> 16855

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G8

<400> 16855

gttcggagct cagagccttg cgatctctcg gctgcgcgcg cgcaagatgg ctgacccaga 60
attggaagct atcaggaaga gaaggatgga agaactaatg gcaaaacacg gtggcgggtg 120
ggcaaataca caaaatgcaa gccaaacaaa agctcaggaa gacgcgaaac aggaagctga 180
ggaacgccga cagatgatgc ttgctcagat attatcttct gaagccagag aaaggatctc 240
ccgcatagcc ttgggtcaaac ctgacaaaagc aagaggggtg gaggatgttc tgctgagagc 300
tgctcaaact ggtggaatat ctgaaaaggt gtccgaagaa agacttatct cccttctaga 360
gcaaattaac acccacacaa gcaagcaaac caaagttacg attc 404

<210> 16856

<211> 135

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G9

<400> 16856

accacgcgtc cgatgaacac tgtcctacca tgcagtcaac gtcctcgtc ggggtatcag 60
cttccgcgta agacgacacc cagtatcagc tgggaaggta gtccgttgat tgtgctagct 120
gctagtgatg accct 135

<210> 16857

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H1

<400> 16857

cagacgcgtg ggggcagact aggaagcgtt tttatggact tgcgttgat tgcgtgaaca 60
aaggaacttg taacactacc tataaactgg tcagactgag acggttagca tggattttta 120
gtagtgttgc tgtattttgt tgtttcatat aagtactcta ttctgtt 167

<210> 16858

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H10

<400> 16858

gcagcacctg caacgaacga cgacgacagc tctccttgga gcatgcttcg tcacgcgccg 60
gcagaccagc aagcaatggt ggggagctac agcttgccacc accaggcaat ggaggcgaaa 120
gctgtaggcg gcgtcacctc cccgagtttc tccgctggtt tgccgagctc gccggtggcg 180
gactacgtgg gaaacgatgc ttctggctac catacaaaca actattaatt aatgatggat 240
gatgagccgc tgccgaaaat atagtgatec aataggtggt gttaggctat tcacacttac 300
tgtacagttt taaaacaatg tcacatcaaa ttttgtttat ggaaccgtgt aactgagtt 360
tcaactagat gca 373

<210> 16859

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H11

<400> 16859

gtcacctaac aagcacaacc gtctgtacat ggaagcgccg cccctggagg agggctcttg 60
tgaggcaatt gatgatggcc gcattggccc acgtgatgat cctaaggtgc gctcccagat 120
cctctctcaa gagtttgggt gggacaagga tcttgccaag aagatttgggt gcttcggacc 180
tgagaccacc ggcccaaaca tggttgttga tatgtgcaag ggagtgcagt atctcaatga 240
aatcaaggat tctgttgtgg ctggtttcca gtgggcatcg aaggagggtg cactggctga 300
agagaacatg cgcgggattt gcttcgaggt ctgtgatgtc gttcttcatg ccgatgctat 360
ccacaggggt ggtggccagg tcattccaac tgccaagagg gtcatt 406

<210> 16860

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H12

<400> 16860

atcttcgcag tgttccaggg tctgctgaaa gtgttggtg ggattgatac caacttcaca 60
 gttacctcaa aggcatctga tgaggatggg gactttgctg agctatatgt gttcaagtgg 120
 accagtttgc tcattcctcc gaccactggt cttgtcatta acctggtcgg aatgggtggca 180
 ggaatttctt atgccattaa cagtggctac caatcctggg gtccgctctt tggaaagctg 240
 ttcttctcga tctgggtgat cctccatctc tacccttcc tcaatggtct catgggaagg 300
 cagaaccgca caccaacaat cgtcattgtc tgggtccatcc ttcgtgcac cagctttctc 360
 tttgctgtgg gtg 373

<210> 16861

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H2

<400> 16861

caaattcgac atcgcaagcg gccgtgggat tttattaaca tattatatat aactcgaatt 60
 tcttccattc tcatttgaca atgcgactac aacgacgtat attgtgtttg ggaaagtccg 120
 ataaaaaac gatttggaaat ctaccttttc atttgtttta tcccttataa aaataactca 180
 atcaaaatcc aattatctac tctacaagaa tgaaatgctt gttatgccta atatacttag 240
 tttaacctgt atctgtttta attctgttct ttgtccgact agctttttct tcgccaaatt 300
 accogaagct tatgccattt tcaaccaat cgtggatgtt atgcctgtca gacctgtaaa 360
 cttttttcta ttaacgtttg tttggcaagc tgcagt 396

<210> 16862

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H3

<400> 16862

catgtggcga tccatccctc accatgtcgt cggaaaagga ggccggcgtc gccgccgtgc 60
 tcgatgacag cccaaccata tttgacaaga tcatcaagaa ggaaatacct tctactgtgg 120
 tttacgagga cgagaaggta ctggctttca gggacatcaa ccctcaagct ccaacacaca 180

ttctcatcat ccccaaagtc aaggatggac taactggcct ggcaaaggct gaagagaggc 240
 acatagagat acttggctat ctctctatg ttgccaaggt tgttgccaag caggaaggac 300
 ttgaagatgg ctatcggtt gtcacatg acggcccaag tggatgtcaa tctgtttacc 360
 acatccacgt tcctctctc ggaggcaggc aaatgaactg gccccaggc taagaatatc 420
 ttgtg 425

<210> 16863
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H6

<400> 16863

caggacgcgt gggcgacgc gtggcgac gcgtggcg acgcgtggc cgccatctct 60
 gccaacgtcg gctactgcaa ggcaccaacc ctgagctgga agggaagcgg agtaccaggc 120
 cggattgtgg tctccatgtc caccacccga agaggcctcg tctccctaag acgacgatcc 180
 cctcggtttc gcgtctacgc ggcgaaggcg gagacggtga gcaaagtgat ggacatcgtg 240
 aagcagcagc tggcgctggc ggcggacgtg gggctgacgg cggagaccaa gttcacggac 300
 ctcggcgcgc actcgctgga cacggtggag atcgatcatga cgctggagga ggagttcaag 360
 atcacgcgtcg aggaggacaa tgcccagagc atcgccacca tccaggacgc cgccgacctc 420
 atccacaagc t 431

<210> 16864
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H8

<400> 16864

cccacgcgtc cggggaggcg tcagcgtctg catatgctga tgtttatagc gcatttgccg 60
 agatcgatac tattcatgtt gtggaaaaac gtgacacaca tgacaatgtc cgggacgttc 120
 ctaagggttaa cccactggca cctttagcaa cgattaatcc agaagagctt cactccaaaa 180
 ttctcccat cttogetggg cgaccgcga tcatggcatg tcaacgacat ggctcatgtg 240

gcgagccagt ttccggggac actgagcgcc accagctact cgatcacaga gtagaacata 300
cctgccctga 310

<210> 16865
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H9

<400> 16865

cggacgcgtg ggcggacgcg tgggttttag tttgggctgc cttattttct attgtatcac 60
taaaggcaag catccgtttg gtgagtacta tgaaagggat gtgaacattg caaacaatcg 120
ctttgatctc tttatggtgg actacatacc agaagcagtc catcttatat ctcatTTgtt 180
acaaccaaac ccagaggcaa gaccgacagc agtatatgtc atgcaccatc cactcttttg 240
gagccctgaa ttgcgtcttt cgttttctaag ggataccagt gacagaattg agaaaaccag 300
tgaaactgac ctcatgaaca cactggaaag catacgatct ttggcgtttg gtggaaaa 358

<210> 16866
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-001-H6-F1A

<400> 16866

gtaggacgta tattttttacg gcgatcatca ttgaggcagt tggacctgat ccctaatacac 60
ttccgcgcca ctagtatcga tactgtgacg ggcccgatcg agcctccaat ggctcgagtt 120
ctctcaccta ctatacctgg tagttaaacac tgccgcacat ctacaagctt accaggacac 180
gtactttatgg gaataaacgg taaaaacgat cctccactcc tgacttaaaa acgacgtcat 240
tcaggccgga cgactacgtc atcagctcta aaccctaaat gtcaacaaca tgtg 294

<210> 16867
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-002-A11-F1A

<400> 16867

gaatgtagga caaaataatg gacattggaa tctagaattt acatatatat gtacaggttg 60
tcatacacgg agaggctaca agagctatat acagtctcgg tatcttaaaa agttgatggc 120
aggaacacgg acgcattggt .cgcaggatct ggccacgctc ttcggcaggg acgcccagat 180
tgacgggacg tgatcgccgt tgcttgacca aaccagcttc aacaacggag caggcggggg 240
atgcgctatc tgccggtgcc gtgaggaaag ggatggcagc gccaaagtct tcacgaggcg 300
acttcgcaga cgtctccgcy gcacagaggg cacacctgt gtatttcttt cagccatttg 360
tcaacacatt gcagggtggaa ctctgtcttg caaggaagaa ttcgtatctg gtctccatcc 420
tcatattcag ttaggcagat atggcactgt tccatatcat cactgc 466

<210> 16868

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-H6-F2A

<400> 16868

gacattactg ttcagttggt tacttagcga gcggagacgg tcaatttggc tatgttatgt 60
atggactgct atcagtgaca cattggccaa gcatgggcat gcgttacgct agtagttcgg 120
acactgaatt cattaatgag tgactgtagc ttaagttaat gcgtgattga gctatgtgga 180
agctatgcgc cggagagacc tgtggtcacc aagtt 215

<210> 16869

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-H6-R1A

<400> 16869

gtcactacga taagttcgcc gcacgtcact accgtctcca gatcagtacc tggatatcta 60
tctaggtgag tctatcggtg gggtcgtaga gccttcgtcc ttctcgccac gcgtagcacc 120
tg 122

<210> 16870

<211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-001-H6-R2A

 <400> 16870

 ggcgctacaa agaggccgac gcacgagatc gacagtgate aaaccaaaca actgtcatat 60
 atatcctaac ggcgctatg tggtgggacc ggtaccccat tcgttgctgt gggcacgcgt 120
 accgcttgcg tggtgactgc cgatggcact acgaaagacc aaccatgtgc cctccgtgac 180
 gcggagacgc ttctatagac tcagcatggg tgccatagcc ctgccatatt ctttatctca 240
 cagccccgtg tgagagcgca tctagacgag attgcgtgta cgcagcctca tcatgcagtc 300
 aatagtcagt ctctactgc tatcgtggca gagtcacttc atagcatcgc cagatcctgc 360
 agccaacaca ctgctgatcg tgccattagc 390

<210> 16871
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-001-Q1-E1-B2

 <400> 16871

 acaagcctct aaagtgate gtattaaacc ggggaggacg cgtgggcct catcatgtat 60
 ctgatgtctt gacgacacat atggcacaac ggatgaggtg tacgctgctg ataagatcta 120
 cacgcttcct tgctgacca tgcaaacctg aggagcacia ctgttcgtcc tgctgggcgt 180
 tttcctagtc taggtggcct accctagatt tgtgaatata atgtcttgac cctccaaatt 240
 atgctcttga ttgcctggga caaatagctt agctgaagtc atgaactaac gtagagttat 300
 tttttgtgtg ctttgcgcat atctctgtcc atcatgtaga gcacatgggt tactgcacat 360
 agtttaaaga tttggacatt ttctgaaaaa cagcgcgag 399

<210> 16872
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-001-Q1-E1-E8

<400> 16872

tcttgctctt ctctccggc ctctcgggc ctcgctcacc cgaaccagca accctaattcc 60
gtggccgcgg acccgccgca agctccatcg cgcgaataga ttggggattc agtcgaggct 120
acgcgggaac tggtcgcgct cgagatctta gctccgcac ctgaaaccat tggctccatt 180
gctattgctg tcgtggttca ggtgatgaaa tcttggggag cccgcctcgc tcggtcctaa 240
gatgctggcg agctacggag gtggtggccg cggcgctccat ctctcctccc acaaggacat 300
cctcctcggc cgcggcgcc ggagcttctt cttgggcaac acgtggtttc tcctctccac 360
ctacccggcg cgcctcctgc acaccacggg acgcgcgcgc cccgcgcgtt tccttggcgc 420
gatcaaccgg cccctt 436

<210> 16873

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-001-Q1-E1-F2

<400> 16873

tagtttact gttcatgaag tttgtcatca gggattaaat acatcatcac tgatctgaga 60
aacaataat gaatggccac gtgtcagtgg ggggtgatca gcttatgcaa acctacacca 120
acagaagggg gttgcacttc accccccaac aatttctaac tcctacaccg actaaattac 180
tagccattg ttaacgggga acattcacta ngcctatcag ctgtcagggtt gttaataaat 240
acgtgagctg agctactaca acaaacaagg cccaccgaca caagcagctg gagatttgcc 300
ccgagctgcg gccataact cggaaaacta gaagctgtca gtaatggta aatttccttc 360
tgtgcggct gtaatccgat acgtatctga atgtc 395

<210> 16874

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-F8.F1

<400> 16874

accagaccaa agctcagtct agtttatagg cagccggtag aaacacttga cgatgagtta 60

gccacagcca cagccacagc catagccagc catctgatga gttcatgagt aaaactaaag 120
tcatacagag gccactagtt gacctttttc atctcagaaa ctaaaattca aggtcgtcgt 180
cgcgatcgtc tctcacgtca cacatacaac tagtatcatc gtcacgtca tcatatacta 240
aggcccaaac caagaaccac gcagttagct catcgtgcgt gtaccttagc accattgcc 300
tatcaattag cagatgcatc aaatagctgt agtatcaaag ggctccattt cctt 354

<210> 16875

<211> 539

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-001-Q1-E1-F8.F2

<400> 16875

aaaaatgatt accaggccaa agctcagtct aaattataag cagccgggag aaacaattgt 60
cgatgaggta ggctcataca cagccacaga cctagccagc catgggtggga gttcatgagt 120
caaaactaaag taatacagag ggcccttggt gacctttttc ctctcaaaaa ctaaaattca 180
agggcgggcg ggcgagcgtt tattacgtca cacatacaac tagcttcatc ttgatgggtg 240
ttatatacta agggcgaaac caagaaccac gcaggcaggt catcgtgcgt gtgccttacc 300
accactgcc aatcaattag cacatgcatc aaataggtga agaatacaaag cgctacattt 360
acttggaact atcataaggc gcagagcaaa tcagagcagg aggacgtacg cctctggggc 420
gtgaccaact gttgctgtca cgggaggttg aggaagatgc atgcgngtc caggtggggc 480
aactctgcgg cggcccagca cgcgcccatt tcgaacgaca cggagtgcc caggaacca 539

<210> 16876

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-F8.R1

<400> 16876

gggtcgtggc gccggccccg gagctcgcca ccgggccgac ccaggcaaga cggcgaccac 60
caccacgacg acgagcgaga ttaccacgga gactggcgcg ctggaggact ccgactccct 120

ggcgcacctt ctgttgcac ccgtaggacaa aggacgcgga ggccgtcgcg ctccg 175

<210> 16877

<211> 608

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-F8.R2

<400> 16877

cgcgctcgtgg cgccggcccc ggagctcgcc accgcggccg acccatgcaa gacggcgacc 60
accaccacga cgacgagcga gatcaccacg gagactggcg cgctggagga ctccgactcc 120
ctggcgcacc tgctgctgca gcccgggaca gaggacgcgg aggccgtcgc gctcggcctc 180
ggcctctccg acttcccctc cgccgggaag gcggtgctgg acgacgagga ctcgttcgtg 240
tggcccgcgg cgtcgttcga catgggcgcg tgctgggccc gcgcagggtt cgccgacccg 300
gaccccgccct gcattcttct caacctcccg tgacagccac acacggtcac ggccgagagg 360
cgtacgtcct cctgctctgc tctgctctgc gcctgatgat gaggcaagg aatggagcg 420
ctttgattct tcagctattt gatgcatctg ctaattgatt tggcagtggt ggtaaggtag 480
acgcacgatg agctgactgc gtggttcttg gtttgggcct tagtatatga tgacgatgac 540
gatgatacta gttgtatgtg tgacgtgaga gacgatcgcg acgacgacct tgaattttag 600
tttctgag 608

<210> 16878

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-G1

<400> 16878

gtggttcgtc acaacactct agagtgagtc gtaataatgg acgcctcaag ctataggtcc 60
tttttctgct gcctctctcc ctgctcttca tctgtatcat tctctgggtc ttgaatgctt 120
gagtgaatgg tgaataccgc atacctgtat ttcaggaatc atatttgatt aatggtgaa 180
tgcaactgcat accggattca aggaaaaacc aaaaacacaa aa 222

<210> 16879

<211> 281
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-001-Q1-E1-H4

 <400> 16879

 gctctcttgc cggccgtggc ctgccatcag ctgcgggcgc ccacgcctcc cagcaagggtg 60
 ggtggcctcg ccggacggcg gacgaccccc ccggtgccgg tgccagtgcc actgccacca 120
 cctcggcccc ccggacagcg ggcgcggaag aagatgaggg tcccggagat ccagcagatg 180
 gtgcgggtcg tgtcggtgga gaacgacgcc ctccgcaagg agatgagage gttgcggagg 240
 gattgcacgg cgctgttcca agagaacggc aagctagaga c 281

<210> 16880
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-002-A11-F2A

 <400> 16880

 ggaatgtagg acaaaataat ggacattgga atctagaatt tacatatata tgtacagggtt 60
 gtcatacagc gagaggctac aagagctata tacagtctcg gtatcttaaa aagttgatgg 120
 caggaacagc gacgcattgg tcgcaggatc tggccacgct cttcggcagg gacgcccaga 180
 ttgacgggac gtgatcgccg ttgcctgacc aaaccagctt taacaacgta gcaggctgtt 240
 gatgcgctat ctgccgttgc cgtgaggaaa gggatggcag cgtcaaggtc ttcacgtggc 300
 gactttgcag acgtgtccta ggcacatagg gcacactcct gtgtatttct ttcagccatt 360
 tgттаacaca tt 372

<210> 16881
 <211> 496
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-002-A11-R1A

 <400> 16881

 agagctacaa aaagctagag gcacccaac gcatgnntga tatggaacag tgccatatct 60

gcctaactga atatgaggat ggagaccaga tacgaattct tccttgcaag cacgagttcc 120
acctgcaatg tgttgacaaa tggctgaaag aaatacacag ggtgtgccct ctgtgccgcg 180
gagacgtctg cgaagtcgcc tcgtgaagac cttggcgctg ccatcccttt cctcacggca 240
ccggcagata gcgcatcccc cgctgctcc gttgttgaag ctggtttggt caggcaacgg 300
cgatcacgtc ccgtcaatct gggcgctcct gccgaagagc gtggccagat cctgcgacca 360
atgcgtcgct gttcctgcc tcaacttttt aagataccga gactgtatat agctcttgta 420
gcctctccgt gtatgacaac ctgtacatat atatgtaaat tctagattcc aatgtccatt 480
atcttgcct acattc 496

<210> 16882

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-A11-R2A

<400> 16882

agagctacaa aaagctagag gcacccaac gcagtgatga tatggaacag tgccatatct 60
gcctaactga atatgaggat ggagaccaga tacgaattct tccttgcaag cacgagttcc 120
acctgcaatg tgttgacaaa tggctgaaag aaatacacag ggtgtgccct ctgtgccgcg 180
gagacgtctg cgaagtcgcc tcgtgaagac cttggcgctg ccatcccttt cctcacggca 240
ccggcagata gcgcatcccc cgctgctcc gttgttgaag ctggtttggt caggcaacgg 300
cgatcacgtc ccgtcaatct gggcgctcct gccgaagagc gtggccagat cctgcgacca 360
atgcgtcgct gttcctgcc tcaacttttt aagataccga gactgtatat agctcttgta 420
gcctctccgt gtatgacaac ctgtacatat at 452

<210> 16883

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-F4

<400> 16883

gcaagactct aaagtgagtc ttattaaact ctatcaacgc ggatgggtact ctgttggtta 60

tagtccctgc tgctaaccac ccttggtgct ggtgctgctg gagaggcatt gtacctgtcc 120
atgcatatat gatatatatg ttgtaacggt gtgaaagcaa acaatcttgg gtaccaatgt 180
ttgttaaaaa aaaaaaaaga atcaacaaga ctaaaataaa gacaactaaa taaaaacaga 240
ataaccacga agcagataca catcataaaa 270

<210> 16884

<211> 537

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-F9.F2

<400> 16884

tcccgttttt gttttttgaa cagaggggaat gacagttgtg agctttattg caaataggat 60
ctcttatata caatggatgc agtgtctccc aaggggtgtg tcctttggga gaaaactgtc 120
agataggggt tgatcacttt gtacacaata ttgggggggc ggaatccaac catggcttgc 180
atgcatgtgt agtagttgta tatgatataa ttaatacacc ttttcttgcc cccaatctt 240
tgtaaatacga aaatgcatta attaaccatt tgtattttta agacttattt ccagcttatt 300
aatattattag aataatttga tgaagttaga atgtgagcgc tatagctgcc tagattatcc 360
gatatctgat aatgccatgt tgagctcctt gaccttgga cgcagcacc tcgctgctc 420
ctccccctcc ttgatcatga tgaacttttg cagagccttc actctgaact tctttactac 480
atttttaaac ttattaaagg tccatctggc aaattaccgg ctcaccttt ttagcga 537

<210> 16885

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-D12

<400> 16885

acgactgctt ccatgagcta tacgccgacg gccaacgac aggaggctcg tcgtcagcgt 60
ggcaggacct gctggtcatg tcgccgtcca aggggtcggg gcagcgggag ctcaaagctg 120
ccatcgagaa gaacgaaggg ggcttcgtca aaccgggata accgtgtaac tgctacgttc 180
gttcgttagt tcggttccaa cttccaaagg aatcggtccc tagccggatt gttgatcagc 240

tggaacgatt tctgaataga ttccttcgta accgaacatg cccctaacag gcgcatcatc 300
cagaaaccgg gaaagatgaa gctaattgtga tgctttgatt gtggaggtgg cctatcttct 360
tcctgttggt tccaaacata cgaatttcgc aatgcatttt gtatgatgcg attc 414

<210> 16886

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-D5

<400> 16886

accacgcgcc ggcagatccc aagctcaccg tagaggggga agagggcgac cgaaggcggc 60
gatgggtttc atcatggact tcgcggagaa tctgatcctc cgtctgatgg aggaccggga 120
caagcgcgac caggttcggc gggagcatgt ctacaagatg aaggagcggg gcgagcgcac 180
taaggcggcg tggagcctcc ctctgcgcc ctacggcttc tggaccttcg accgcttcaa 240
ctcgcagctc tcctgggatc cccagatcag ccaggccgcc ggcgctcggg acccctacga 300
cgacctcatc gcacgccact ctggctcgcc gccgtcctcc tgaacaccgt tccgatcttt 360
ggccagaaaag gctacttggg catcaataag aaactctttc cctc 405

<210> 16887

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-G11

<400> 16887

aagcaacca accaaaccg cagcacga caccaagtcg aggagctcga gggaccaat 60
catggccggc gtgaactcca gcgtcgtcgg gctcaagccc gccgcccag tgcgcaggc 120
cgccgccgcc tcatcgccgg cgaagcgggt gcagctggcc gcgcccagg gccgccgcg 180
cgctctgctc ggcttggcgg ccgtcttcgc cgtcacggcc accaccgggt cggccaaggc 240
cacgatcttc gatgagtacc tcgagaagag caaggccaac aaggagctga acgacaagaa 300
gaggctggcc accagtggcg ccaactttgc gcgcgcctac accgtggagt tcggcagctg 360
ccagttcccc tacaattca ctgggtgcc ggacctcgcc aagcagaaga aagtcctt 420

catcagcg

428

<210> 16888

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-H9

<400> 16888

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa

54

<210> 16889

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-E9

<400> 16889

tgcttttaac attctctgta ggttatgtat tggagaagag tcgaggacag aattcagatg 60

ctgaagtcag caattttaca tcccagagctg aattccagag cataacctac tggaatcacg 120

atacagcgcc atcagcagag gattccctcc cgagggtgctt ccattggctt accgtcgcta 180

atgcgatgca tagagcagtg actgctgaag acctgactaa catggcagca atgcagaatc 240

aggacaagta gattcgttct ataacgaagc catgcaattt cgatttggtg aaccatctcg 300

acaaaggatc ttgtaacaac caacatgtta tttgaacgca tccagtaggt aatgtttagg 360

ctttggggta agatgcttca ggagatcctt gttcagtagc atctgaaaat gt 412

<210> 16890

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-F9

<400> 16890

actctcagaa agtatgtctg ctgataaacg tgagggtccaa tctctttctg caaaatatga 60

tgagagatgc aagaaggttg gagatgtggc atcaaagcta acaatggatg aggctacttt 120

ccgtgagatc caggagaaga agttggaaat ttataacgcc atagttaagc tgcaaaaagg 180

ggatgatagc gatgagaagt ttcaggagcg ggctaataag atacagtcag atcttgagga 240
gcttgtgaaa tcattgaatg agcaatgcaa gagatatggg ttgagagcta agccaactac 300
tttagtggag cttccttttg gttggcaacc tggaattcaa gagacagctt atgcatggga 360
tgaagaatgg gataattttg gagat 385

<210> 16891
<211> 599
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-004-Q1-E2-A4.F2

<400> 16891
acaaatacag cgctagcttt gttcgttcat atatgcgctt tgcagccttt cttcactctg 60
aaagcccggc cgggattatt gctacgtata cgtaacagaa tataataatt agctaaacaa 120
tacgagcgga acaacgggag aatatacatt aaggtaacag ctccttcccg aacagcccag 180
caatcgctcg gccagggctt tcttgcgtca gcagggactc tcttaccaaa accgcgaaaa 240
caccagcttt ttgcacatat gccacgtcat cgggagtgaa cagcccagac tcgctcacia 300
cctgtattcg cttctcgta atgatgtcgc cacgcttctc taacaacatg tttgtgtttg 360
cagtgtcgac ttgcaatgtc ccaagactgc ggttgttgat gccgatgagc tccacaccgt 420
ctatcttgag gacgcgatcc aactccctct catcatgaac ctgcacaaga gctgccatcc 480
caaggctctt gcagacgcgg aggaagtagg tgatgtcgat gtccggcagc acggccgcga 540
tcaggaggac cgcgtccgag cctttcgagc gcgcgtagta gatctgccag gcgtcgatg 599

<210> 16892
<211> 89
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-004-Q1-E2-A4.R1

<400> 16892
cccacgcgtc cggcgccgtc ccgcgcaaca tcttgagca gatcatctcg ggacaaggag 60
gtggaggtgg cccagcgcaa ggccagaga 89

<210> 16893
 <211> 668
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB83-004-Q1-E2-A4.R2

<400> 16893

```

ccccacgcgtc cggcgccgtc ccgcgcaaca tcttgagca gatcatctgg gacaaggagg 60
tggaggtggc ccagcgcaag gccaggacgc cgctgtgca ggtgaaggcg tccgccgcgc 120
tcgcgccgcc gccaggacgac ttctgctggcg cgctgctgca cgctgcccgc cgcaacgccg 180
tccccgcgct cgtcgccgag gtcaagaagg cgtcgcccag caagggcctc ctcagggacc 240
acttcgaccc ggtggagatt gctcgacact acgagaagaa cggcgcgggc tgcctgagca 300
tcctgaccga cgagaagcac ttccaggga gctttgagaa cctagaggcc gtacgcagct 360
ccggtataaa ctgccctctg ctctgcaagg agttcgtcat cgacgcctgg cagatctact 420
acgcgcgctc gaaaggcgcg gacgcggctc tctgatcgc ggccgtgctg ccggacatcg 480
acatcaccta ctctctccgc gtctgcaaga gccttgggat ggcagctctt gtcgaggttc 540
atgatgagag ggagttggat cgcgtcctca agatagacgg tgtggagctc atcggcacga 600
acaaccgcag tcttgggaca ttccaagtcg aactgcana cacaacatg ttgttagaga 660
agcgtggc                                     668
  
```

<210> 16894
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-C8

<400> 16894

```

aaaccatagt attcaaaacc atagtattca aaactttgct accaaacaca ctctaaaatg 60
tttacagatt acagtcacgg ctaaatacata gggaacacta ggattagcca tagtgcccct 120
tcggccttcc caacgccagt tcccccttg aaatccacag gaatttaccg tacggcgagc 180
atttcaaagg tcatttgtcc cgagtttgaa tggtttctta gatcaacaa ggtctgttat 240
tacatttacc ccctgagatt aataatctaa tcaactgtcta cttaatcctc gtcgtcgtct 300
  
```

tcttcgtatt attcctcttc aacctcgtcc tectctcca ccacctcatc tgactccaac 360
gacggtggag a 371

<210> 16895

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-D7

<400> 16895

tttcgcgttt cacggcggcg cggatataga gccatcggcg gcacactgac cgctggctaa 60
cggtagag atgaccacgg ttatctcag cgcctctcgg ccttcattg tcagcttct 120
catgccgatg ggggataacc tcgtg 145

<210> 16896

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-E9

<400> 16896

tgcttttaac attctctgta gggtatgtat tggagaagag tcgcggacag aattcagatg 60
ctgaagtcag caattttaca tcccagctg aattccagag cataacctac tggaatcacg 120
atacagcgcc atcagcagag gattccctcc cgaggtgctt ccattggctt accgtcgcta 180
atgcgatgca taaagcagtg actgctgaag acctgactaa catggcagca atgcagaatc 240
aggacaagta gattcgttct ataacgaagc catgcaattt cgatttggtg aaccatctcg 300
acaaaggatc ttgtaacaac caacatgtta tttgaacgca tccagtaggt aatgtttagg 360
ctttggggta agatgcttca ggagatcctt gttcagtagc atctgaaaat gtctgggtaa 420
ttt 423

<210> 16897

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-F3

<400> 16897

tactttcttcc cccaacaaaa gacacgaatc agccatggcg ctgcctccg ccacgtcccg 60
ccccctctc ggctgccccg ccggcaccgc ggggcccac ctgcctgtt cctcatcctc 120
gcccgcctcc tcgatccgct tccccgcgg cgccgacggc ggccgagca gagcgggct 180
ctctctccgc gccccacgc ctccagtctg tgaccccaaa agccttctt tcatgtctgg 240
aatggagctg gactacagcg acgccctcat tgggtggcggc ttcttgttcc agaatcgaaa 300
cgcaacaaaa acctgtgggt gcggcaaata tttcgcgact ggaaa 345

<210> 16898

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-F7

<400> 16898

tctaaccacc tgcgctgcgc tcgctctct cgccccctc agatccaccg actcgtctg 60
agtctctgac cgcctcttcc gtcgtccccg ttccaaggcg cggcaagcga gcgattcagc 120
cagattcgat tcgacatgaa tcccagtag gactacctt tcaaacttct gcttattggc 180
gattctggtg ttgggaaatc atgcttgctt ctcagatttg cggatgatc atatttggac 240
agctacatca gcacaattgg ggttgatttt aaaattcgga cagtagagca agatgggaag 300
accataaaac ttcaaatttg ggatactgct gggcaagagc gtttcaggac catcactagc 360
agctactacc gtggagctca tggaatcatt gtaagttggc cacctgaact agcaactttt 420
gaaacttgct aac 433

<210> 16899

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-G8

<400> 16899

catcaattcg tactgtcat gcaattcctg gaggccttag gaattgggtc tgcagttgta 60
cctgtaggct gtagctgcca atttagttcg attttgaatt tggcaggtag ttgttgtgct 120

tgttttctaga tgcaagagtg cttattgttt gtggtgtttg ttattggaaa ttttggttgg 180
 tggtagttat ttgtccggaa aggttaatgc aatgctgtgg cttgtcttgc ttttagtcaa 240
 tggtagtaag ttgagtaaaa tgttcatgtg tatgtgcagc ttgtggtcgg cagtgtgaaa 300
 ttttgacctc taattatttg ttagtaatgt aattttctca aaaaataata aaaaaagaaa 360
 aacaacaaca gtaataaata gaaaaacgtg ccacacagga tgggtaaaaa 410

<210> 16900

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-005-Q1-E1-A5

<400> 16900

accacgcgtc cgcaccgata gttacccatgt ttgaaagaac tgaagctgta aatcacagtc 60
 gtcgttgctt gtgtgtgtgt gtttatagtt cctccatggg ttaccatcac tttcagcttt 120
 tctagtatat ctagtgcttg ctatgtttca taatttcggg ctatgttggt tcagtgtacg 180
 gtatttttgt ttgtttcctt ccacgattat ataacttagc ttatggatta tataagcaac 240
 tattgacctg cttatggatt accataatct aggtgtctag gttatataat ctatctaata 300
 atctgttttg tttgtttgcc tctcaactta ttttaagttgg attactgttt gtttcctttc 360
 aaaattatac aatccaactt atanaa 386

<210> 16901

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-B6

<400> 16901

tgaagcgcgc gagagaaacg cgtataccca ggcggcgggt gaggaagagg aggagaagaa 60
 gaagaagatg gcttctctcg catacgctc atggtccaag cgggtggatcc gtcccgagg 120
 gtaccgcgtg ttctgtccga tggccgtggc cttgggcacg tgctcgtacc agcttgtgcg 180
 caacatcacg ggcaaccccg aggtgctggg gaccaaggag aagagggcgg cgggcgtcct 240
 ggacaaccac gacgagggcg agaggtacgc tatgcacggc ctcaggaagt tcgtccgcgg 300

gaagaagccc gagatcatgg cctccatcaa ctcttcttc gccgaccctc ccaaggacga 360
ttaaagctaga ttccgtcatg gatggatgga tggatgga 398

<210> 16902

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-E5

<400> 16902

ttttaatcga caacatttga ataatatgta cataacatta aaaagcgtat acagctggtg 60
ataacgttgc tacatccaaa tagcgtgtag catgcctagc aagccaaaca tattacctta 120
cagcaagcat cccattgccg cttcacacat ctttgtgtgc ttcatcgga cgcgtgggca 180
atcattgttt ttggcaacaa aattagcaca caaactggaa ttggcacgtc cattgccata 240
gctggtgttg ctatgtactc ttacattaag gctaagattg aagaggagaa aaggaaaaag 300
agcgcgatgac tgctgtgaat aatattatcg agaccttct cggacacaac atcgtcgaca 360
atcacgacct acttctatat cttgt 385

<210> 16903

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-E6

<400> 16903

aaactagtggt tctgcaagta gttgttcaga atagtctgaa acatgagata tcactttttc 60
agctctgtcc ggtcctctta tgttttgtct tttctgatgc ctccgaaaat tctgtgtatg 120
ttgagttggt acatagcgga caaaaggag actatgaaac ctctgtctag ttttgtctct 180
gtaaaattgta catgtgcggt gtttgtatca gttgtctgaa acatttctgc agtttactgg 240
taataacaga aattgaatct cagcatctaa aaaataataa aaaagataat gaaata 296

<210> 16904

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-005-Q1-E1-H8

<400> 16904

tggctatccc ggcgccgtgc gcccttacgt ggggcccggct gatgaacctg agcgagaggc 60
tcgtgctggt tggcggcctc ggcaagcaag ataggcctgg ggtcatcaag ggaatcggca 120
tctgggagct ccgtcgcaag gagtggcacg aggtcgcccg gatgccccac aggtacttcc 180
aagggttcgg cgagtctgac gacgttttcg caagctgccc ggcgcgtgat cttatctaca 240
tccagagcta tgggtcgccc gcgctcctca ccttcgagat gaaccacagg tcgtggaggt 300
ggtcgcgcaa gagccctggt tccaagaggt tcnccgtgca gctgttcact gggttctctt 360
tcgagcccca gctggacatt gctctctagt tt 392

<210> 16905
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-B1

<400> 16905

tgctgactca aaagcacttc gtcaaaagga tggagagctt gcttcttaca tgtctcgctt 60
ggcctcattg gaatctattc ggaattcact ggcagaggag ttggtgaaac tgacagaaca 120
atgtgaaaag ttacggactg aagccgctgc tgtgcctggc ttaagggctg aattggaagc 180
tctgaaacaa aggcacttcc aagctctaga gttaatgggg gaacgtgatg aagagttgga 240
ggagctaaga aatgatattg ttgacctaaa agagatgtac agggagcaag tggatcttct 300
tgttagccag ctccaggcat tgggtgctcg tgtatagtgc cggtatggat ttgtcgtgcc 360
atcgggcaag gcaagac 377

<210> 16906
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-B4

<400> 16906

atccctgcga gtttcagtgc aaggcagcat ccaatTTTTt tgcaatatcg tcatgtctat 60
tagctcccag tcccagtgct gaaaagcgaa atgtaaacta gcattgtctg attgcatgcc 120
tcagtttttt tttccccttg gcccgaagtg tatgaactaa tggtagacct acttgttcag 180
ctgctctagg cctgattcta tttggagctt gttgtggcag agatttcacg tcagtttaca 240
aaggctagtg atgctagaag gtgttctctg caaaaaaaaa gaagaaaaaa aaaacaaaaa 300
tgtaaaaagg aaaaacaatg tcaagaaa 328

<210> 16907

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-006-Q1-E1-C8

<400> 16907

cggacgcgtg ggcaagaagc tcttcctctg ggtctacgtc acgggggatgg tcgcgcaccc 60
cgaccagggc accatcgagt tccaggccgg ctctgtctcg gagtcgctat cagcctccat 120
gtttgacgag gtgcgcacct gcggttccag cgctggcgcg cagctgcgcg gcgcggtctg 180
ggtcacgga gagcttgggc tgctcccgt tgcgaggca tgaacctga gtttgagaat 240
ccacgctacc ggagaaacgc aggagcttcc tgtctgctgt cgctcgagc cctagagtgc 300
aggacgttca gctgtggggg gtgttccagt atctggttgt tgcttccgg tctcaatgga 360
catggatgct ctgtanaaat gtatatcca tatgctgttg ctgaaactgc g 411

<210> 16908

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-G3

<400> 16908

gaagcttggg gcctcgtgtc tctgattttg gccttgcaag gctgcttgta gacaatgccg 60
ccgcccattg taccactgtt gtggcgggca cttttggata cctagcacca gagtacttgc 120
aaaatgggca tgctactgag aaatcagatg tgtatagctt tggagtgtt ttgctggagc 180
tagtgacggg aaagaggcca accgattcat gttcatcaa gaagggactg agcattgttg 240

gctggctgaa caccctgacg ggggagcacc ggctggagga tatcgtcgac gagcgatgcg 300
 gcgacgtcga ggtggaagcc gtggaagcca tcttggacat cgcagcgatg tgcaccgacg 360
 cagacccggc gcagcggccg tccatgagcg ctgtcctcaa gatgctggag gaagagatcc 420
 tgtccccctg c 431

<210> 16909

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-G9

<400> 16909

cccacgcgtc cgcccacgcg tccgcccacg cgctccgtacg tagtagaggc aagcaaaagg 60
 gcagggatag agcgccgccc agatatctag ctagaagagc ctagaagccg gtgtagagga 120
 tcaggaggat gtctgggtcg tccggctccg gcgtgtgggt gttcaagaac ggcgtgatgc 180
 agctggagca gccggccgcg gcggcgagcc ggaaggcgct ggtgtacgtg ccgacgaacg 240
 aggtggtgcg gtcggtggag gcgctggagc ggcggctggg cacgctgggc tgggagcgct 300
 actacgagaa ccgcagcatc gtgcagctcc acaagcgcg aaggcgccgccc gacctcatca 360
 ccatcccgcg cgacttcgca agcctccgct ccaccacat gtacgacgtc gtcgtcaaga 420

<210> 16910

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-H12

<400> 16910

tatgaatcat ccaggagctc gagggcacca atcatggccg gcgtgaactc cagcgtcgtc 60
 gggctcaagc ccgcccgggc agtgccgag gccgccgccc cctcatcgcc ggccaagcgg 120
 gtgcagctgg ccgcgcccga agggcgccgc gccgctctgc tcggcctggc ggccgtcttc 180
 gccgtcacgg ccaccatcgg gtcggccaag gccacgatct tcgatgagta cctcgagaag 240
 agcaaggcca acaaggagct gaacgacaag aagaggctgg ccaccagtgg cgccaacttt 300
 gcgcgcgcct acaccgtgga gttcggcagc tgccagttcc cctacaactt cactgggttg 360

caggacctcg ccaagcagaa gaaagtcctt tcacacgga acgact

406

<210> 16911

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-H2

<400> 16911

tcccgcctcg ctcggccaac gcgatctgtt ccccaacctc cgcagccgct ccaccgccct 60
ccactccggc tgccgaatcg acccgccccg atccagatca ggagctgagg gatggacgcg 120
aacaggcgcc agagtgggat ccagcagttg ctggctgctg agcaggaggc tcagcaaatt 180
gtgaatgccg ctagagctgc caagtcagcg aggtcagggc aagcaaaaga ggaggctgag 240
cgggaaatag ccgaataccg tgcccagatg gaggtgaat ttcagaggaa ggttgacagag 300
agcagcggcg actctggtgc aaacgtcaag cgtctggagg aagaaacggc ggcaagatc 360
gagcaactca cccagcaggc cgcaagcatc tcccagatg tcattcagat gcttctgctg 420
catgtcacca ccgt 434

<210> 16912

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-A5-F2A

<400> 16912

aaatacggat taaaccgggc ctagtcatca tatactctaa tgaccagaac tgctgtcacc 60
agacaaccca gaaacattct ctttgtccca aaataaatca atttctcaga gttatcttaa 120
atcaaactat ttttaagttt gaccaaattc ataaaaagag catggcactg aattagtgtc 180
actaatgcac cataaaatat ttttcataat gtactcattt gggggcatag agacatagac 240
gatggtgcct ttctataaaa attggtcaaa cttaagataa tttgacttta agtgattcta 300
gaaattgact tattttgaga cggagcatat tactataaga aagaaaagca taagcagtat 360
aactacttca cggttcagct tcaacgatca tggactcggg atttggatct c 411

<210> 16913
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB83-007-Q1-E1-A5-R2A

<400> 16913

```
caccatcgca gaagcgcagt aggaagccgg acaaagctac gcaaggaggg agaaagcgtg 60
taaaccatgg cgtcctccgc gttcctcaac gctctcgtcc tccgatcgcc atcacccgtcg 120
ctctcgtcct cgtctaaccg ccgcagcacc ggcgcccttcg cgttcccga cccaccgcgc 180
ttcccatgcc tgcgttctgc gcgtcgactc gtccttgoga gggcgggcggc agcgccggcg 240
ccgggcgatg gccccgagga cgagtggggg ccggagcccg agggcggttc cgctgtcacg 300
ggggccgcgg tggcggaggc gccggaggcg aaagaggteg cggagctcaa ggcgagcta 360
aaggacgcgc tgtacggcac ggagcggggc ctgcgggcgt ncagcgagtc acg 413
```

<210> 16914
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-E10

<400> 16914

```
agattgtttg tacaagagag ctagctattg gcatgcacca ttctcctgta tggggactgt 60
tgtatacttg catatgaata cacaagaatg taatgccaca ttcaactttc tgctctttgt 120
ttgcgttata tgtgccttcg tcttgatgg ctttcactcc catagtccca tgtgatgcac 180
aacaatgtac cgagtttgac tgattcatga gttcattgta cttgaatttc cagattatgc 240
tgcgtttgaa gcagacagaa ggagcatttt tttttcactg cgagtttcct atattccatc 300
tcttctgctc ttgataagca gacacttggg atttgtaatg caattttttc cagtgttgct 360
tgggact 367
```

<210> 16915
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-E2

<400> 16915

ttttgccatg gctgggtgcat cgctcctctc cccatcctgc acgctcctcc gcctgattcc 60
cagcgcgctcg cacatctgct gctcgtcgca cttcaagaga ttgatcgagg ttgcccgggt 120
cgcgccccgcc gccatggcga cttcctcagg accaaaggag gcgccagcga ataaccctgg 180
gctccagacc gaggtcgacc ccgccaccaa aggtacttct ttgcaacaaa cgatgttacg 240
tgtgaaggac ccaaaagtga gccttgactt ctactcaagt gtgatgggca tgtcgttgct 300
gaaaagggtg gatattgaag agatgaaatt cagtttgtat tttctagggt acgaggatgt 360
gaccttagcc cctgatga 378

<210> 16916

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-F8

<400> 16916

cgagcgctg ggcggacgag tgggtgatct catgccaaga gcgattgcat tgcattggagg 60
tggtgatcct attgtgctga tttgcctcgc tcgtgtcacc aacttcaatg ttggttcctt 120
tatctgggtg tgattattat gtttgattgg tgacctgag cgtattttgg ctgttagagc 180
agcgttaaat tcaacgtagc aacgatgggt ggaatctgag atagtttggc cttgtgtaga 240
gtttgaatta aaagttgtta cttggctgat tgttccaaaa aataattgac aaacgccatg 300
gtcttcaaaa aaaaaaaaaa aaaaaataaa aa 332

<210> 16917

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-H12

<400> 16917

tatgaatcag gcaaggcaat cccaaccag cagatcatta gcaagctcga gagggccctg 60
ggaaccaagt tgcgtggcaa gaaataactt tccaacaat ttgtgtcccc ggagcaatca 120

taataggggg aagacaaggc aagctgtctg cttatttgtc tatgtttggg atctcaagtc 180
ctgcggaactg tttctgttgg cacaagaagg aataaatgtg ttcaaggacc tg 232

<210> 16918

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-A1

<400> 16918

tttttccaca ggggagccag ggctgtagcc ggacgtgcca gtcgtcggtc tgcatagtcc 60
cgccgctgct gaggtacggc aagtactgag ggatcctgta cagcggctgc ccaggcgaga 120
agccctgcca cgcgctggac gcctgctgca tggctccaga ccaactgctc gacaccaca 180
acaatgacta cctcaacacg cgggtgcaac agaacctgct gagctgcctc gacgggggtga 240
gcccggcggg gccgacgttc cgggggaacg agtgcgacgt cggccagacg gcgtccgtca 300
tacgtggggg catcgagtcg gcggtgctcg cgggcaagat ccttcacaag cgcgacgacg 360
gccagtagcc ggcgtcctgg gctcctcctg gc 392

<210> 16919

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-A3

<400> 16919

aaaaaaaaac aaaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca 60
aaaaaaaaaa aaaaataaaa aagaataaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaac 120
aaaaaaaaaa aaaaaggggg gcccctcaaa aggttcaaat attcctttct cttgcatgca 180
acttcaaacc cctcccaaat tttcccaaaa tttcattcca cggggcggtt ttttacaact 240
ccgtcctggg aaaaccccg tcttttcaca ttttactccc cttggagaaa atcccccttt 300
ccccatttgg gttaatatga aaagggcccg caccatttcc ctttccaaaa atttcccacc 360
cttaaatggc aaatggaacc 380

<210> 16920

<211> 68
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-008-Q1-E1-E7

 <400> 16920

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

 aaaaaaaaaa 68

 <210> 16921
 <211> 57
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-008-Q1-E1-F5

 <400> 16921

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 57

 <210> 16922
 <211> 102
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-008-Q1-E1-G1

 <400> 16922

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 102

 <210> 16923
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-008-Q1-E1-H7

 <400> 16923

 tcaagcttgt taataagcag ctctagtcct gatattggcg agaccagtga ccaagtcgag 60

 gtggattctt gtcaatactt gataagcagc catacgggtg attgtagggt ctcatgtcct 120

 gacaacagtt cgttggatac ttctggtaaa gctcatgatg aagagagatt ggatcaggcc 180

ttaataacca agcatgacag tgggatgatg ccttctacta gtaaccagac atcattagat 240
gctactgtag gcactgagag cagtgctgaa tatatgaagc atgatgtaag ccattgcgat 300
gacttcaata tcagagtcaa tgaccaaagc ttgaaccagg cgtaaagaaa tcagcatggt 360
gatgctgtcc cattacctga catggtatca ctagatgcta aggtggacaa 410

<210> 16924

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-Q09-Q1-E1-C5

<400> 16924

ttacaataca tcgtacgatg gaagggttcaa cgcatagttc acgcaattta tgatgtccac 60
gggatgttga gtgtcgtcgc agttggtttg gcaactgaga tgtctgtcca aggaaaggtc 120
tggaacaatg ttgtgtatgt ggataagctt gtgtagcagt tcagataact gccaatcgag 180
cagcatacaa tacctgacgt tggatttcag caacatcctt acgtgtatcg tcacaagggc 240
gcaattgtag ttcgatgatc tccacacata tactacaagg acttacagtt gatatctgac 300
agttcggagg cctcaagtat gtaagatctt gcaatgtgat att 343

<210> 16925

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-D11

<400> 16925

accggtgggc ggacgcgtgg gacgcgccgt acgggcaggg cttcgcgcgg cacaaggcca 60
ccggccgatt ctccgacggc aagatcgtca ccgacatcac cgccgaaacg ctcggcttcg 120
agagctacgc gccgccgtac ctccagccgc aggcgtcggg gaagaacctg ctcaccggcg 180
ccaacttcgc ctccgcggcg tccagctact acgacgacac ggccggccatg tatgacgcga 240
tcacgctgac ccagcagctc aagtactaca aggagtacca gtcgaagctg gcggcggtgg 300
ccgggcgcgc tatgggccgc gccatccttg gcgacgcgct 340

<210> 16926

<211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-009-Q1-E1-E3

 <400> 16926

 atacgacagc ggtcgcgtgg gccacgcgt ccgccgacac ctccactcgg cttctgcttc 60
 gtcaccttct ccacagagga ctcgatgctc atcgccatca tgggcatgaa ccgtaaggag 120
 catcgacggc cgcaccatca ccgttcacga ggcccattcc ctctgcggcc gtggaggagg 180
 ccgtggcgga tactgtgacg ggcgccgtga tggacgcgga tactgcgggtg gcggtggaag 240
 ctaccgcggt ggtcgtggac gctaccgagg ctgtggggga tacagtgggtg c 291

<210> 16927
 <211> 147
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-010-Q1-E1-B3

 <400> 16927

 tctgcagaaa gatagatgcc taaggagggtg ctgaaaaatg tagtttcgtg gtcaaacatc 60
 cttgttgaca ccattttcca ccttgtgtta ttcacatgga acttttcttc aaacaaagtt 120
 ttgttaatca aaaggtacca aacatac 147

<210> 16928
 <211> 259
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-010-Q1-E1-D10

 <400> 16928

 agttcaacac agtgaactac gccggcgtgt ccaccaacaa ctacgccttg gacgagggtc 60
 cagaggtgaa atgagtgggg ccggccggct caaaggctcc gcgctagcta ccgtgtgatt 120
 gatttgtagt agttgtgaaa tgaagctgtg aagctgcatg ctgtgctggc taacgtcaca 180
 acatcgatcc tatgtgtaat agcataatcc acataatcat atcatgtaat tgcgtgcttt 240
 aaaaaaaaaa aaccaaaaaa 259

<210> 16929

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-D8

<400> 16929

agggaactt gtaatggtcc caaacttttg ttccatgttg atctgcagag ttcacatggc 60

tatgtttact tcacgtatct ttgccgaagt tgtttctggga ttgcttaaca tgctaataatc 120

cttcttctgt acgtgctgat ttataactcc tgtttctttc aactaggctc atgcttcttc 180

taatggcgac ctaataatag accatgctgg aactttttaca agacataaaa ataaaaaca 239

<210> 16930

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-010-Q1-E1-E9

<400> 16930

aacagcttaa gaagggagcg aatgaagcga cgaagaccct gaataggggc atacggagt 60

ttgtagtgat ggcggcggac acagagcttc tcgagatcct gctccacctc cccttgtag 120

ctgaggataa gaacgtgcca tatgtgtttg ttccatcgaa gcaagctctt ggccgtgctt 180

gtggtgtgac aagaccggtt attgcttgct cagtgaccag taatgagggg agccagctga 240

aactacagat acaggggtctc aaggactcca ttgagaagct tctcatctga tctgccgaag 300

acctttcagt gtgatgggcc tcacgcacac ttttttcaga ggcttggact ggtgatggtg 360

tctgttttac tttgcgcttt tcaaactata 390

<210> 16931

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-F5

<400> 16931

aaaaaagcaa cttatgctga tgagaggttg gtgacgattc ttggctactg gctactgtaa 60

ttagcttgag ctactattct ggttgacga tctgtggctg aacacgagta ccatactga 120
 gtgtcataag tcatgttgcg aagaacatga gtagcatatt tcaggtgccg tttggttcat 180
 atatttgtaa tgtaatgggt aacggataac gttagagggg aagggtccgc gat 233

<210> 16932

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A2

<400> 16932

tgttaatcca ctctgtcatt cttctagagc aaaaagacct agacaaaacg ttcctccacc 60
 ttcacttgaa tcatctgttc tcacaaaaga aggtgcaacc aaggctgaaa tcgattcagc 120
 tcaaacacaa caccaaaatt cggctcttgca aggtcaggag cagatgacct tgaggaacaa 180
 cctgactgaa agcgctgatt ctgattccac tgttcagaag ccgatgatgt ggtccccatc 240
 actcaatggg aaagcccaca ctcattttca gcagagacct gctatggata attggatgcc 300
 attgggaagg cgtgaaaatg acttcaagga caccggttct gccttcaagg atgcccgcac 360
 cgctctcaa tc 372

<210> 16933

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-C1

<400> 16933

tgtacaacaa ttaatgcaac aaattaagta cgtacttaat ttgttgcaatt aattgttgta 60
 catgtgagga aaacaagtag agatggatgc atcatccatc gacgggcgga gtacatacat 120
 gtacaacaat taatgcacca aattaagtac gtacttgaaa aaaaaaaaaa aatataaaaa 180
 aagaa 185

<210> 16934

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-C12

<400> 16934

tcctccgcgg caggtaggcc aaatcccagc gaagcccggc catggcgatc gccgtcgccg 60
tggtggcagg aacgcagctc tcagcgacaa cgctaccatt ttgtaactac tgcggtgtag 120
tatatatatg catgcattcg tacgtgatgc gagctgtgtt ttcggtccga tgggagcgcg 180
tcctgtgact gtgactggag taaaaattta ccgagcttct ggagagtatc acattgtgta 240
tc 242

<210> 16935

<211> 352

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-011-Q1-E1-C3

<400> 16935

tgccagacca gtcgccgcgg cccgtgcgct tcggtatcct gggctgcgcc gccatcgcg 60
gaaagctggc acgcgccatg ctgctcgcg cggcgcgagc cgtcgccgcc gtcgggagcc 120
gctccgaagt gaaggccgc ctcttcgccg ccgacaacgg cctcgacgtc gccaccacc 180
gcctccacgg ctcgtagcat gcgctcctcg acgaccggga catcgacgcc gtctacatgc 240
cgctccccac cagcctccac gtgcgctggg ctaccgcagc cgccgcacgt ggcaagcacg 300
tgctcctaga gaagcccacg gcgctgtgcg ccgccggact cgacnacatc ct 352

<210> 16936

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-D5

<400> 16936

taaggtggag ggcacagget cgggattcgt gtgggactcc acgggccaca ttgtcacgaa 60
ttaccacgtg gttgcgaagt tagctggaga cggatctgca tctcatcgct gcaaggtgtt 120
tttgagggt tctggtggca aaagttactc aaaggaagcg aggctaatag ggtgtgatcc 180

agcatatgat cttgcggttc tgaagataga tgctgacagg gaccagctga ggctgtctct 240
gattggcaca tcacggagtt tgcgagttgg gcaaagctgc tttgccattg ggaaccctta 300
tggatatgaa cacactctaa ctactggggt tattagtggga ttggggaggg aaataccatc 360
tcccaatggg agagcgatcc gtggggctat ac 392

<210> 16937

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-E12

<400> 16937

ggacgtgtaa tcatttactc tgtgcaagtt taccagtgat gcaatctgta tagatgtgtg 60
tcttgtccag ccatacgtat accggagatg aaaggagacg gaggcagtga agaaatatcc 120
ttttttttct tctcattttt cacgaggatg cgggtgactg ctcccagaat gctgtgtcca 180
atttacaac gcacaggtgg cacatgaact agcagagtag ctttatcttg aaaggaaact 240
gtatttgggg tcgatgaacc ctctggtgtt attcttcaga ctggtaaacg atgtaacatg 300
tttgataatc aataaagtgc gtcgtatggc tttcct 336

<210> 16938

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-G11

<400> 16938

tgcaggagga tccggtgaac caataccaac aattgtgtat gacgatgaag actacaagga 60
tgtttttgtg tcagaggctt gcttgctcac tcgcgacgag aacgagtggc acaggggaacc 120
aatctcggcc aatgccacgt ctggcaaaga aggtttgcaa gcctcggttg ctgactgatt 180
taagtcaggt tctgtatcag ttttgtgact attatacaga tacaggattt gatcaacgcc 240
tcgacatggt aggaaagaac actacggtat aggcggggat tgttcacaag acaatctggt 300
tctggaatgg accattttca gtatagcaac tattgatttg agcaacagtc agactaatgg 360
ttccaggaga aatttatccc 380

<210> 16939
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H6

<400> 16939

```
tccatttctc accagaagcg aaggcggagg cggaggagcg gaggtaggag atctcgagca 60
aggcggaggc ggaggagatg aagacgttcg acccgtggcc ggtcttcttc cgccgggagt 120
ggaagcgcaa ctggcccttc ctcacgggtt tcgcacatcac cggattcatc atcacgaaga 180
tgacggccaa cttcaccgag gaggacctca agaactccaa gttegtccag gaacacaaga 240
agaagcactg acgaaccagg tgaaggagtt gtcagaaacg catgtttggc cagccagttc 300
tgttatgctt ttgaatgaaa aatttagacc cctctttctc gtttccttaa tcgaaatgct 360
tgaactctat gttccattt 379
```

<210> 16940
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H7

<400> 16940

```
aagcaagcaa gcaagcagcg agtacatata tactaggcag ccaggcagcc atggcgccca 60
ccgtgatgat ggctctgtcg gccaccgccc tcgctccgtt ccaggggctc aagtccaccg 120
ccagcctccc cgtcgcccgc cgctcctcca gaagcctcgg caacgtcagc aacggcggaa 180
ggatccggtg catgcagggtg tggccggcct acggcaacaa gaagtctgag acgctgtcgt 240
acctgccgcc gctgtcgacg gacgacctgc tgaagcaggt ggactacctg ctgcgcaacg 300
gctggatacc ctgcctcgag ttcagcaagg tcggcttcgt gtaccgcgag aactccacct 360
ccccgtgcta ctacg 375
```

<210> 16941
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A6

<400> 16941

aagaaactac tagctggtac cctaataata attctgctgg ctgcggcgat cccaaaataa 60
aagaggccgg gtgcgatgca tctcggactt ctcgagtggg gtttgctca gacagccagc 120
cactgtgggg ctagtgttcc aacatttgtc agcctgcttg cgcgaggaag gggggtcact 180
gactcaagag aagggcctgg tcataggctg ctgcattatg aatttctgat gatgtcttat 240
gtctgtactc tgaatcaact atgtatgaga tctcatctcc tttctcctac tgaatgaatg 300
aatcattatt ggctttgctt tgcttcaaaa aaaaaagaa 339

<210> 16942

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-B4

<400> 16942

tgcgattcaa tgttaaggaa gctcactggc ttggggagag aatcaaggaa cggatattac 60
aagcggagaa gaataggata aataaagatg gagagcttgt tatatcttct acaaaaacta 120
gaacacagaa gggcaatatt gaagatgcat tgcagaaaat acaggcaatc attgatgctg 180
catcatatgt tcttccaccc ccaacagaag accaaaagaa aaagattgaa aaaattgctg 240
cagtcgctga aaggaagaga cttcagaata agaagggtgt ttacacagaag aaggaattta 300
gacggaacag aactagctgg gattgatgca agcttgttct cggggtagca aaagcattcg 360
gctgatcctt acagcagtgg tgtacagaga ccgacgaaaa acaggggtca gacttgctg 419

<210> 16943

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C3

<400> 16943

aagctgtcca gatcgctga ttccgcatcc cgttcgcgag cgcgacacac gctgacagct 60
cacggctgac cttcccgacg gcttccagct ccatcttgat tcttgaggcg aagccccggt 120

gcgtaagagt ctgccatggc cagcgagaat aaggtctttg ggttcgagga agtcgccaag 180
 cacaacgtca ccaaggactg ctggatcatc atcgccggca aggtgtatga cgtcactccg 240
 tttatggatg agcatcctgg tggagacgag gttttgctag ctgtaactgg gaaagatgct 300
 acagctgatt tcgaagatat tggccacagt gattccgcaa gggacatgat ggagaagtac 360
 cacatcgggc agatagatgc gtcaacaatc ccagcaaagc gtgctcatgt gcacccccag 420
 c 421

<210> 16944

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D11

<400> 16944

gacggagtgc ttgcagcggg cggcaggtaa gccaacgaa accgatggcg tcgggctccg 60
 gcggcgggag cgacttctcc gtggtcgtgg tgggatccga cttcgcgggc gacgccggcg 120
 ccgcgctcct cgccccgggc gaccacgagg tgtggcacga ctgcctcccc gtcctcgctg 180
 aggcggacgc ctgcttctcc gacctcgagg agcgccaggt cgtgcgcata cagggcacgg 240
 atagggcagg ccgaaccatc gtccgcgtcg tcggcaagtt tttcccggt ccagtaattg 300
 atggtgaacg tctgaagaag tatgtgttcc acaaactgcg cacccaattt gccggtgggt 360
 cc 362

<210> 16945

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-F1

<400> 16945

tgtaattat gttgaagata ttgatagaca tatatgcat attttggcta gttcataaca 60
 tgtaaaatag gtttgggatt ttaagcaggc agccaatagt ttcgacgtga atagtagtgg 120
 tgaagtagtg atttgcttta tgaaagacgt gttggcacct ta 162

<210> 16946

<211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-F3

 <400> 16946

 tgaagaatga caccgcagaa gggcagaacg ccatgccagc aaacgaaaat taaagaacac 60
 tgatactgtt actatgcctt cagactctga gaaggatcgg gattctgatt cagatggtga 120
 tgtttagaaa agagtttcaa acgctggaag agaagagtct gatcagaaga aactagaaat 180
 tgaactccgt gagaaggccc ttgaatctct tagagcaaag aaagccgtca acaactagac 240
 tgagaatttt tttgtgacac atttgagttt ctattttcaa gtggaagtgt ctttatatga 300
 tactatttaa tgttctgtgt gtttatgtgg cagttgatct gatgattcct gagctgttta 360
 cttgatgcag ctgaattcag gcttagcagc cagttatctg attagctcca tgtgcacaag 420
 cttttt 426

<210> 16947
 <211> 55
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-F4

 <400> 16947

 agcaaggata atgcaccaca cgtgcacgcc acacttgtag tccactctga cagtc 55

<210> 16948
 <211> 116
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-H9

 <400> 16948

 ctcacacgtc cgaggtcgcg tgggcggccg cgttgggaag acttggtgctt accgccacca 60
 tcatgctagt gtcgatgtca ttagggaact gactcgcac gatggtcgta gacctg 116

<210> 16949
 <211> 95
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A2

<400> 16949

aaaaaaaaata aaaaagaaaa catagacaaa cacaaaaaaaa acaaaaaaac aaagacccaaa 60

taacaaaaaaa caaaaaaaaaa aaaaaaaaaa aaaaaa 95

<210> 16950

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-B12

<400> 16950

aagctctgga gcccttcttc agcgcagctg ctactcagtt tatecttgga cagcaagttc 60

ccttctctct gtggctttct cttgcccttg ttgtcatcgg tgtttcaatg gcatccctta 120

ctgagctctc attcaactgg actggcttca tcaatgccat gatataaac atctcattca 180

cctacaggag catttattcc aagaaagcca tgactgacat ggatagcacc aacgtgtatg 240

cttacatttc aataattgct ctcatgtttt gcattccgcc tgcagtgatc tttgaagggc 300

cccggtaat gcagcatgga ttcagtgatg ccattgcaaa agtaggcttg acaaagtgtg 360

ttagtgacct attcttggtt ggactgttct accatctgta caaccagatt gctacg 416

<210> 16951

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D11

<400> 16951

aaagacatct agaaacatag atgacactaa tgctaaattt tgtagctgaa gatcagacca 60

ctaaatattc ccacgaacac attactgtta ggttggggga tcattaaact cgagctaaga 120

cacaaatatg tagatgaaat tagtgctgct gttcatgcct tcgttgagat tagccattac 180

aggacacaag aatttagtaa gaggttttgt aaaccttttc cagtgcagga gcagctgcct 240

gatgagttgg tagagtgggt gctttcagtc aattctctag ggtgcctatc tctatttaac 300

ttgatgctgc acactggggg ctcccttcag tc

332

<210> 16952

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-E3

<400> 16952

cttcggcaac gtgatcttca cggcgacgcc gctggccaac gccggcacgg tgacggccgg 60

ggtggcagag ggcgcgtccg tgatccaggc cgcgttggac cggatggacg acgggtactg 120

ccggtcagcg ctggactacc tggagctgca gccggacctg tcggcgctgg tccgcggggc 180

gcacaçgttc cggtgcccca acctggggct ca 212

<210> 16953

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F11

<400> 16953

tggagatttg gactataaga gcgagcgagc gagcgagctg ggtgccttga ggacgccgtc 60

aagaaaccgc gtggaggggg gggagggcga tgagatgagg gatgctggcc gccgtgatgg 120

actacttcag cacctgctgg ggcccgcggg ctctgtgcggg gcaccggggc aagggctccg 180

acgccgccgg ccggcatgac ggctctctct ggtacaagga ctccgggcat ctctgcaccg 240

gggggttctc catggccgtg gtgcaggcca accagctgct cgaggaccag agccaggtgg 300

agtctggatc gctctccctg gctgactacg gccgcaggg caccttcgtc ggcgtctatg 360

atg 363

<210> 16954

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-G11

<400> 16954

tactcaggct gctcgcaact cccatcctcc cctccccgga gtacgaagta ccagagagag 60
aacggctttc ctctagcaat ggggggtggc cgcgccggcg acgacgacgt ggtgggtggg 120
aactgcggcg gcagctgcgg cggcgacccc ggcgcatacg ccgcggtgct caacaggaag 180
ctcgacctgt actgcgcgcg cgtcgctaaa tccatggggg ggttcctcct cctcctaccc 240
ctccaaagat tagacctttc taggcctact tgcgtattgg ttgtgtgatt gtgccttgtg 300
tgcacgacg tgtcaatttc agctccagct taatttccag tctcaatggg aagaagtgca 360
tgtctttcag ttacttcccc ccatcatttt tgggagggga attt 404

<210> 16955

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-G3

<400> 16955

tgctgacttt ggtctgtcta tattgggtcc tgcagatagc ggtacccac tgtccgagct 60
gccagcaggg actcttggtc accttgacct tgagtactac cgtctccact acttgactac 120
aaaatctgat gtctacagct tcgggggttg tctcctggag atactaagcg gcaggaaagc 180
gatcgacatg cagttcgagg agggaaacat tgttgaatgg gcagtaccac tgatcaaagc 240
aggggacatt tttgccatcc ttgatccagt cttatctcct cctcagacc ttgaggccct 300
taagaagatt gcttccgtgg catgtaagtg tgtcagaatg cgaggtaaag atcggccttc 360
catggataag gtgacgacag ctctagagca tgcccttgca ctgctgatgg gcagcccctg 420
cat 423

<210> 16956

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-H7

<400> 16956

tgagtcacct gttaccagc gtgacctgga ccgacttaaa ttgtcaaccg ccccttttat 60
ggaaaggaac ttggaatttc tgattgggtg catggatgat ctttcatcag agcagaacaa 120

gttccaatat tataaccgca atctctcaag acaacagtca cagcagcagg catggcttca 180
aaagagaagg caggagaaca tggcgaggaa agcagctggg gaggagccac taccagaaga 240
agatccatcc aatcctatat ttaagcctat tcctgagccc tcacgattgg agggctatct 300
agtaactaat cagatctgca gttactgcaa ccatatcaac ggggttgctg gtcagaattt 360

<210> 16957

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-A12

<400> 16957

tgatcgctca gcacaaagcg tcgtacttgg ataggagaaa acaattctag acagtcgaca 60
gagagagaga aacaaaaaat agagaactga gagatcgagg acaaaggggg agaggagatg 120
tctcggggcg gtagccacgg ggagctgggc cataggatcg attacgtctt caaggtgggtg 180
ctcatcggtg actccgctgt gggcaagtcg cagctgctcg cgcgcttcgc ccgcaaccag 240
ttcaacctcg actccaaggc caccatcgga gtcgagttcc agaccgcac cctcaacatc 300
gacgccccga acgtcaaggc acagatctgg gacaccgcat gccaggaaag gtaccgagca 360
gtaacaagtg cctactacag ggggtgcagtt ggggctatgt tagtatatga cataa 415

<210> 16958

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C12

<400> 16958

taggttccgg cactctcacg ctccatcgac tcttctggaa gaggatgatca gtgggcagaa 60
actgtggaag gaaggctcca gcgtttgcac tcgcctgagg cctatgaaat gatcgagaac 120
catctcgccc tcattctggg gcagcgtcag agtgatgcca ctattgcagc cataagtaag 180
ctccgtgttg gccaggtcta tgccgcatct gtgatgtatg gctatttcct gaagagagtt 240
gatcagaggt ttcagctcga gaagacaatg aagagcctcc cttggggatc agaagaggaa 300
gacggcgctt tgtatcaagt tatgacgacc gactcgatgc cttcagctca gtcttctagc 360

tctcacccag agatgggctc ctggaccgcc gcgcctgac

399

<210> 16959

<211> 613

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D9.F2

<400> 16959

gggggtttttt tttttaaaaa tattttttttt tttttggggg gttttttttt attttttgtt 60
ttttatttaa ataaggaaga ttggtttggt tgaaagggaa ggtgggggtt ttttattaaa 120
tttttttgtt aaaaccccc cccccccca aggggggggg ccggcaagga aattggaaaa 180
aaaaaaaaac ccagggggc gaaaaaaaac ccccttaaa aggagggccc gggaaaacca 240
aaaaaattaa ggggggaagg ggggggaaaa aaaaagggcc gggaccccc ggttttaaaa 300
caacaagggg aaaaggggg gggaaaaacg gggggggggg gggcccaaac caaaaccca 360
aaaagggggg caaaaagggg gggaaaaccc cccgccccaa aaaggggggg ccaagggaaa 420
acgggaacca caccacagg ggttaaacc cccccgggc gcggggcccc acccgggggg 480
aacgaaaggc ccgaatttt tttctcttc tcgggagggg ggggagaaaa aaggggccac 540
aaaaaaaaaa aaaggggggg gggggggggg gccgcctctg gtggagggga aaaaaacaca 600
cacccggggg ggg 613

<210> 16960

<211> 592

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D9.R2

<400> 16960

cggacgcgtg ggcggacgct tgggcggacg cgtgggcgga cgcgtggggg acttcaagaa 60
cttcatcagc ctctgcctac agaagaaccc ggtgaaccgt ccgtccgca tgcggctgct 120
gcagcaccgc ttcgtggccc agccgcagcc gcagccctg gccgccccgc cgtcatgatg 180
gctcgccgaa atccacaatt catgaccgat ttgattgatt gattgcttcc cgtcgtggta 240
caactgaagg cggcgggcgg attgatctct caccttgctg cctgaccttt ggggtggatg 300

gatggttggt tgcattgattg gttgtggatg gccatgagat gcggtacctg gagacgttcc 360
 tcctaatacct agctaggcat gcaagtggct caggacaagc cgctaaccgc cagggctgac 420
 cgcacctcgc cgcaacgacc cgcattgcga taccccgacg gcgtactgga gctcggaaag 480
 gcgcgcacat ggcgttccgc ggattatggc gccgccttgt atttcctgt cccatcggtg 540
 aagcagcagc agagggatcg agttgatgca tagcatcaga agacgagagc ca 592

<210> 16961

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E10.F1

<400> 16961

aaccgaaac gttgcatcag cttcaaattt tctcattatc aactctattt actccaattc 60
 cttctagcag cttaaattta catcgggcaa catgttgcta gtagccaaa aaatctccgg 120
 gagctgtgca gttactcaaa attttggctt ggggggtgtac c 161

<210> 16962

<211> 609

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E10.F2

<400> 16962

aaaccgaaa cgttgcata gttcaaattt ttctcattat caactctatt tactccaatt 60
 cttctagca gtttaaattt acatcaggca acatgttgcc agtagccaaa aaaatctccc 120
 ggagctgtgc agttactcaa aattttggct tgggggtgta ccatgaaaga gagggtcacc 180
 ttttgtacag gccattccat ggctatgtta ttctctcctt tttttttcca aacgacacaa 240
 actgaatcca cagtgatgct aaccaaactc tatagtttac cgtatatatc atatctggac 300
 caaagttaga cagaataaca gagagctact tatgatcaca tcatcccact gtccaccctc 360
 gttctgcaat cacttcacga acacgagtag ctacttcaat gccgtcattt aggggagggg 420
 agctccagct atttgaaata ttttccaatc cagtgaacgg gcgaacaacc cctcgtcccc 480
 gtagagtctt gtgaaaagcc gaaaacttcc atttacagtg ttcgggtcca ataacataaa 540

caggtttccc tgtgtacct gcctcactta acatacttat cgagtctgct gttatgacaa 600
aagcatcaa 609

<210> 16963

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E10.R1

<400> 16963

gtagatcgt tgcttgtggc tgggacacca tatcatattc aagcttgata aggaaagtag 60
cttcagataa tgtgttcgtc atccagatcc aacacccacg atctcgctt gatagggttg 120
atttagtggt gactcctcgc catgattact atgctttaac cgctagtgga caacaagaag 180
ttccacacct gttccgcaga tggattactc cacaggaacc accaggaag taatagtggg 240
acttgactgt taggtgcact acaccagggtc tgattct 277

<210> 16964

<211> 657

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E10.R2

<400> 16964

cgtagtcgt tgcttgtggc tgggacacca tatcatattc aagcttgata aggaaagtag 60
cttcagataa tgtgttcgtc atccagatcc aacacccacg atctcgctt gatagggttg 120
atttagtggt gactcctcgc catgattact atgctttaac cgctagtgga caacaagaag 180
ttccacacct gttccgcaga tggattactc cacaggaacc accaggagt aatgtggtac 240
ttactgttg tgactacac caggctgatt ctgctgcgt acggcttgct gctatagcct 300
ggcatgatga actcgccct ttgcctaagc cgttgctaata tgcagcatt gggggcccca 360
ccaggaattg taaatatggt gtagatcttg ccaggcagct cataacttct ctgtataatg 420
tgctagatag ctgtgggagt gtcagaatct cattctctcc gagaacacca tggaagggtg 480
ctgatactat atttaaagaa tttgctggac atcccaaggt ctatatttg aatggtgaag 540
aacctaacc tcacatggga catcttgcac gggctgatgc tttgtcata acagcagact 600

cgataagtat gttaagtgag gcaggtagca cagggaaacc tgtttatgtt attggga 657

<210> 16965

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E9

<400> 16965

agagggcacg ccgctgttca aagacagata cccgcctata aactcctata tacagccttg 60

atgcatgtac tcggctcgtc gcgcgccacg ggcatgcagg cagcaacaaa gaggccggtt 120

tcttcaccta aaaatctgtg tagaacatta cgatatatca tacagtctaa taatacccg 180

gctagtacat gggaaaggtt actatctaga aaacgacact gacaaggga 229

<210> 16966

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F1

<400> 16966

gaatcagaca gttctgagat gcaagtcacg gagcatagta caaactcagc acagaagcag 60

aactagacat gtgatccaga cagccaagat ctgagatctg acggtagata tctgatgaaa 120

tcattttacg cattccttct cagtaatagc tgacaaatct gatgagaacg atctcaactc 180

gagagtttca attatgctat tactccgtcc aaaatccgtc taac 224

<210> 16967

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F6

<400> 16967

aggagaagag gctgcagttc gcgattgcca acgacagctc cacttcgctc agcttcatgg 60

cagcgctgta tgcttcgcgg ttcgctggga atatgatacg gatcctgagg agaaacgcca 120

ccgcgaaggc caggctgcag gaaagagtgc ccgcgagact gctgcagaaa ccggctgaac 180

ccaacttttc cgcagaagag cagtagtatt tcgcttctct gacttctcgt tttgcagata 240
cagatatggg aaattgtttg cgtgacttgc aagcccgagg atggcatgcc cagattaaaa 300
agaataacaa aaa 313

<210> 16968
<211> 537
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-014-Q1-E1-G10.F2
<400> 16968

cctaacttaa tatgatgcc ttaaacaaca atgatcttac agctacatat attttatgct 60
ttgtaatat tgaaagacca tgggacatcg ctctgattac atagtacagt ctacagtcta 120
cagataatgt tacgtttcct gatatccaat ggtacttaca aacgaactga cagattctag 180
gagcatggga taacttcgtt tttccaaagc atataactgc aacacaagca acctccctat 240
tagttctgta caattccgca gcaacattaa tttttgctga ggattgaagt tcactatfff 300
caccatttag caagctaattg ttttacctac tgcagacacc tgcttggcaa tccagtatat 360
gatagagacg ggcacagcaa taaatcaaac caagggtag cagggtgtctg catactggac 420
cttcgattta ccaataaacc agtttatgaa taaaccaagt gtatatgttg catactggac 480
cttcgattta ccaatctgtc cattacgatc agcgattaaa ccgtaagggt taggaaa 537

<210> 16969
<211> 641
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-014-Q1-E1-G10.R2
<400> 16969

cccacgcgtc cggccgccga taaaacggcc agccgggcag cggagacgcg gagtggggcg 60
cgacgggcgcg taacctgtgg ggtttcaggt tttgtccctg cgtggcagcg acccagcccc 120
atcgagcadc gaggcattga accgggagcc aaatcggaag caaagcaagg tgaggcggga 180
tctggcgccg gggcaagcgg cagcggcaag gtgtatcatg agaggcagag gctgcaattc 240
tgtctcctcc atgctctcaa caaccttatg caggaaaagg aatgtttcac ccgtgttgag 300

ttggacggga ttgctggaaa tcttgttctc aatgatccag acaagggcca atggactcct 360
 ctaccattca tttttaaaacc tcaccacaat gttataactg ggaactatga tgtgaatgtt 420
 ctcatcacag cattagaagc tagaaacaag aaggtgggtt ggcatgatcg tcgtaaaggg 480
 gcatcatcgg ttgatctgaa tgcagaaaca ttggtaggcc tgatgatcaa tgtacctatc 540
 aggaggttca gggggctttg gactggcagg cattgggtgg caattcgacg cattgatggc 600
 atctggttta atttggacag tgatctttct gaaccaagc a 641

<210> 16970

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H10.F1

<400> 16970

gccgagagct agtactggat gatggaacgg tataggtgtt gggaaccagt tggccgggat 60
 gacctgggtg gcaccagcgt cttgccggac tcgttgggtg atgcgcggtg agaagggcgc 120
 g 121

<210> 16971

<211> 612

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-014-Q1-E1-H10.F2

<400> 16971

gagagctagt actggatgat ggaacggtag taggtgttgg gaaccagtt ggccgggatg 60
 acctggttgg ccaccagcgt cttgccggac tcgttgggtg tgccgaggga gaagggcgcg 120
 gcgaggcggg ggccggagtc cagccgccag atggaccccc acgactcgcg catcggcgtc 180
 cacgacccgg agttggcctc catgagggtcc acctgcacca cgtcgccgtc gccgtcctcg 240
 aactcgacga gcaccgccag gtacaccggg ttggaccctt cctcgatgtg gaacgtcacc 300
 ttctgcccgg ggtagttgca gggcaccctc ttgaactgga tgtcgatgat gccggcgtgg 360
 cggagctcgt cgggtcggcc gggcttggcc atggcgccga acgccgtgcc gctgaggtcg 420
 aagtgttact tggccacggg gtagtagttc atgtcgggtg tgatcaccgt ctccggattg 480

ccggagcagc ctgggtggtt ntggcatcgt atctggtagc aggagccgca gcccttgccg 540
 tccttgaaga ggggctcggt gccgcacgat gtcacgcgcg agacggcggc aggttcacgt 600
 tcttgatcca ca 612

<210> 16972

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H10.R1

<400> 16972

ggagcaaaac accttcctcc tgctgtctgc ctaccagtag ctagctctaa tacatagcag 60
 ccctcgctcg caaggtactg cactacggtg gdcgccacct cctcctccac ctccctccacg 120
 gtagttgtcc ttgcggcgct tctcttcttg ctccttgata acgtgtggct cgtgcgcgag 180
 aaccggagag ctttaacgcc tccgacttt 209

<210> 16973

<211> 654

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H10.R2

<400> 16973

cggacgcgtg ggcgaacttc tcctgtcgtc tgccctaccag tagctagctc taatacatag 60
 cagccctcgc tcgcaaggta ctgcactacg atggccgccca cctcctctc ctcctcctcc 120
 acggtagttg cacttgccgc gcttctcttc ttgctccttg taacgtgtgg ctcgtgcgcg 180
 agaccggcga gctttaacgc ctccgacttt accgcgcgacc ccaactggga ggctgcccgg 240
 gccacctggt acggtgcgcc caccggcgcc ggccctgatg acgacggtgg tgccctgtgga 300
 ttcaagaacg tgaacctgcc gccgttctcg gcgatgacat cgtgcggcaa cgagcccctc 360
 ttcaaggacg gcaagggctg cggctcctgc taccagatac gatgccaaaa ccaccagcc 420
 tgctccggca atccggagac ggtgatcatc accgacatga actactacc cgtggccaag 480
 taccacttcg acctcagcgg cacggcgctc ggcgccatgg ccaagcccgg ccgcaccgac 540
 gagctccgcc acgccggcat catcgacatc cagttcaaga gggtgccctg caactacccc 600

gggcagaagg tgacgttcca catcgaggag gggccaacc cgggtgtacct ggcg 654

<210> 16974

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H3

<400> 16974

aagcaatggc gtcctctcct ctggcaccaa ccaggacctg ctgcgcgcta gtgcccaggc 60
tgccccgctg cccctcgtc ccatccccgt gtatgtctcc ccgtcgcagt gcacgggtggc 120
cgcgcttggc gtcagtcaga gcgactccgg gcagcatctg gaccgccggg gcgactgatg 180
agcataagag gtgcctgaca tgcgggtggct cttaccgaga cgacgagaaa cattcgagcg 240
cctgcgcctt ccatggccac gtcacacgcg agaaggggct gttctccctg tctgccacgt 300
accatggcat cgacagtgag tggggcgaca agagcgggggt cat 343

<210> 16975

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A4.F2

<400> 16975

atagaagacc tgaattaggt aaaaccgccc agaactaatc aatgaggggtt aaaagtactg 60
cgggtgaacac aattgccaca tgaagattcg caacatttct tagatgacgg tacataccga 120
gaacctgagc ctgataatat gtcggtcca cctaattggc aagagggaac gccttactca 180
ctggtcagaa acaaagctgg tcgctttaca cctagcactg agacgcattc tctcaccact 240
gtcttcagcg ccgcactgag gcgaactctg acctgtaaca atgggactcc ctaagaactc 300
gagcatcaag aacatgttga gactgtggct tttgaccgcc ttaacatgga gctgacataa 360
gcctcacttt cagtttgaga tggccaatga ggcaaacctt gcgtcagaat aca 413

<210> 16976

<211> 75

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A4.R2

<400> 16976

cagactcttg ggaggccct atagacggtg cgcgagacgg tgtttgaagc aaagtgcgtg 60
gcagggtccg ggagc 75

<210> 16977

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A9.F1

<400> 16977

aattaaacaa ttcagttttg acctgttttt ttcatttaga aaaaaacatt gcctgttgag 60
cacaactagc aaagacagaa gtttgatcag agatacaaat ataataaaat acaaccagaa 120
aattacatga tttttgacaa ccgtaccagt tccacaattt ataattaaaa tgtgcaaatt 180
aggaagtaga aacttaacgg tgaaaacata tcaaaatcac tagtcgctg ttgaattcaa 240
ctcgcatctg ttttaaccaat gtctccaaag atcacagatc agcccttccg gggaaccttg 300
ggaagggtat aacatctctg atgttctcca ttccggttgc aaatagaatc atccttacia 360
aaccaaccc aaa 373

<210> 16978

<211> 575

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A9.F2

<400> 16978

aattaaacaa ttcagttttg acctgttttt ttcatttaga aaaaaacatt gcctgttgag 60
cacaactagc aaagacagaa gtttgatcag agatacaaat ataataaaat acaaccagaa 120
aattacatga tttttgacaa ccgtaccagt tccacaattt ataattaaaa tgtgcaaatt 180
aggaagtaga aacttaacgg tgaaaacata tcaaaatcac tagtcgctg ttgaattcaa 240
ctcgcatctg ttttaaccaat gtctccaaag atcacagatc agcccttccg gggtaccttg 300
ggaagggtat aacatctctg atgttctcca ttccggttgc aaatagaatc atcctttcaa 360

aaccaacccc aaaaccactg tgctttacag atccaaagcg acggaggtcc aagtaccatt 420
catagggttc caaaggcagg ccagcatcaa gtatcctctg tttcagaaca tctaaccgtt 480
cctccctttg gcttccacca atcaattcac caaccttagg cacaagaaca tccattgcag 540
ccaccgtctt gtatcatcat tgagtctata taaaa 575

<210> 16979

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A9.R1

<400> 16979

gttaccgaca agaagtttga caacaaagtt gaatggggga attgatttag cctctgagca 60
tgaaaggtat ttaacagagg atatatttaa gaagccagtt attgtctata actatccgaa 120
aggaataaag gcattttata tgagactcaa tgatgatgac aagacggtgg ctgcaatgga 180
tggtcttctg cctaagggtg gtgaattgat tgggtggaagc caaagggagg aacggttaga 240
tggtctgaaa cagaggatac ttgatgctgg cctgcctttg gaaccctatg aatggtactt 300
ggacctccgt cgctttggat ctgtaaagca cagtgggttta tgggttgggt ttagaaaggg 360
tgaatctatt tgcaaccgta atggataaca tcaaagatgt tatacccttc acaagggacc 420
caggaagggc tgatctgtga tctttggaac cattg 455

<210> 16980

<211> 643

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-015-Q1-E1-A9.R2

<400> 16980

gttaccgaca agaagtttga caacaaagtt gaatggggga ttgatttagc ctctgagcat 60
gaaaggtatt taacagagga tatatttaag aagccagtta ttgtctataa ctatccgaaa 120
ggaataaagg cattttatat gagactcaat gatgatgaca agacggtggc tgcaatggat 180
gttcttctgc ctaagggttg tgaattgatt ggtggaagcc aaagggagga acggttagat 240

gttctgaaac agaggatact tgatgctggc ctgcctttgg aaccctatga atggtacttg 300
gacctccgtc gctttggatc tgtaaagcac agtggttttg ggttgggttt tgaaaggatg 360
attctatttg caaccggaat ggagaacatc agagatgtta tacccttccc aaggtaccca 420
ggaagggctg atctgtgatc tttggagaca ttggttaaac agatgcgagt tgaattcaac 480
acgcgactag tgattttgat atgttttcac cgntaagttt ctacttccta atttgacat 540
tttaattata aattgtggaa ctggtaagggt tgtcaaaaat catgtaattt tctgggtgta 600
ttttattaat atttgatctc tgatcaaact tctgtctttg cta 643

<210> 16981

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B2.F2

<400> 16981

gatctatttc ttgtccacgc gtacacagac acgtgggcta gcgcgtgggc ggtcgcgtgg 60

catcac 66

<210> 16982

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B2.R1

<400> 16982

cccacgcgtc cgcacacgcg tccgcgggga ccgttcgcat aaaaagcgag cggtagttct 60

atacgaacgg gcttacgtac acttgcatc 90

<210> 16983

<211> 61

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-015-Q1-E1-B2.R2

<400> 16983

gcgcacgcgcg tttacgncac acgtacgcgg gcgggtgggc taattataga tcgcgagcat 60

<210> 16984
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C12

<400> 16984

cacagaccat cgagaacagc tcgaacgttg ggattgctgt ggcctcaag ccctgattgg 60
 ttatacagac cttttttcc ctttctaagt tcctaccatg actgtttggg tcagatcaga 120
 tcagctgggg aaaacaaaac tgtgggggtt cctggcatct ttgtttgctg tagtcagttg 180
 atttaatgaa ctccgaaatg tctcatggcg gaaaattttc ggtcgctgt gtagcgtct 240
 gttaaatgag caaccttcac aataattcaa gctcggtaga attctgaact tgttaaaatg 300
 acatttgca acgaatcagt tggcaattat 330

<210> 16985
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C5

<400> 16985

gctttgaaga gggcatctac tacagataga gtttacacat accattgcgt tagtcgagat 60
 gaactacgca gcaatgtata agcatgtctg ctcttttgtc tcagcctaca tttgagattc 120
 agggcattgg actaagatcg cctacttatg ataataataa taataataac cggatcagaa 180
 cctgtgccgt 190

<210> 16986
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C6

<400> 16986

tgcttgctgt ttccattgta cattgatctt tttgatgcct aatttatcaa gtcctgaaa 60

gttcagggtgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggggggcagc 180
 tcaaaaggat caaagctaaa ttacgcttaa atgaaaatta aaatcccttc aaaaggggtca 240
 caaaaattaa attaacgggc cgtcgcttaa aaacgtcata acgggaaaaa ccctggggta 300
 accaaactaa accgccttga agaaaatccc cctttcgaaa gcaggcgtaa aaccaaaaag 360
 gcccgaaaccg atagcccttc caaaaatttg ccaaccctaa atggcaaagt g 411

<210> 16987
 <211> 62
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G4

<400> 16987

acgtcagcac atgaatgaaa ggcaaaacaa caaaaatgat aaaagatgag aaaaagtaat 60
 aa 62

<210> 16988
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G7

<400> 16988

gcagagaact gcatgtacac tcccgtctac cgcaaccacc ggtagtgtg cggggatcaa 60
 ctttgcagta ataagacatc tactatcaac gcggatggta ctctgttggt tatagtcctt 120
 gctgctaacc acccttggtg ctggtgctgc tggagaggca ttgtacctgt ccatgcatat 180
 atgatatata tacgttgtaa cgttgtgaaa gcagacaatc ttgggtacca atgtttgtta 240
 ctctttcgct cgatgaagat cctgtaac 268

<210> 16989
 <211> 92
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H4.F1

<400> 16989

gtcgcgctcg gaaccttttc ccaacttgaa tgatctcagc acaccaacg aattttgggg 60
ggacaacacc ttgcgatgtt gcgagcatag ga 92

<210> 16990

<211> 584

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H4.F2

<400> 16990

atggcgcgct ctgaaccttt tccctacttg aatgatctca gcacacccaa cgaattttcg 60
tgggacaaca ctttgcgact tgcgagcaca tgaatcactg tgtagaaact atttacaagc 120
agtacaaggt acatccatga ctggacaatg agtgtcgatt ctcaattttt ctcactggta 180
aaccatcgta tggttaccga gccagcggcg agggctcttg cgtcttgctt tagagttag 240
gctgtctgaa cccttgacaa ttcatgaata aaagcccat aggagttag gacatacgat 300
ctcagctcta agcttgaga aaagaaaatt tcgaaaatac accaacaggg ggatcgtctt 360
caaacacccg gccttattgc tgaagctcgt tgggtctcact tcacatggac cacttctgt 420
cacacctaac tcaaccttga tctgtgttga gccgagtctc ttctcctccc ttgctgggaa 480
ccagctatgc tccttacaga tgaatcattc ggctctgcta agggattggg gacaaaacca 540
ccatggactc caaatttctg ctggctgtcc cacttgtaag gact 584

<210> 16991

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H4.R1

<400> 16991

acaagtcagg atccagagtt gttccatata gcggggaagg ggatggtgac tcggaagaga 60
cggctgagac tgaggacgag cccgaagaat ttcagtcagc tcacaaaggt gaggacttgt 120
cgaagatcag gatgcagctc gttcagattg agaatcagca agccagtttg cttaatcttc 180
tccagaaatt cagtgggg 198

<210> 16992

<211> 116

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-015-Q1-E1-H4.R2

<400> 16992

caagtcagga tccagagttg ncccatàcag cggggaaggg gatggtgact ctgaagagac 60

ggctgatact gaggacgcgc ccgaagaatt tcaggcagct aacatagatg atgact 116

<210> 16993

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H7

<400> 16993

tggaactctt caccgtttcc gtgcttctaa tacaattcta gccacaggag gttatggcag 60

ggcatatttc tcagcaacct cagcacacac ttgtactgga gatggcaatg ctatggttgc 120

acgtgctggg ttacctcttc aggatcttga gtttgtacaa ttccatccta caggcattta 180

tggtgctgga tgcctgatta ctgaaggttc tcgtggtgaa ggtggatatcc ttagaaatag 240

tgaaggtgaa cggttcatgg aacgatatgc tcctactgca aaagatcttg cttctcgtga 300

tgttgtttca agatcaatga caatggaaat tagagaagga cgtgggtgtag ggccattgaa 360

ggatcacatt tatttgcac tgaatcatct gccgcctgag gttctcaaag aacggctccc 420

tggtatttct gaaa 434

<210> 16994

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-A5

<400> 16994

tacaactcgc tcacgggcac cgaggtcgcc accgtcaccg ccgtcgtgca gctcgaatcg 60

caggacctcg cgcagatcgc gcagcacgtc cagaagatga ccggcgccaa gaacgtccgc 120
ctcgagacgc agctcgacca ggcgctcctc gccggcttca ccgtgcagta cggcccgac 180
ggctccaaact tcctcgagat gagcgctccg aagcagatcg aggagatcgc gtccgagttc 240
gagttgccccg ccgtcccgcct cgaagtctga ggccggcttg aggcgtccat cctcgccctc 300
gaagctatag gtcctttttc tgctgcctct ctcctgctc ttcattctgta tcattctctg 360
gatcttgaat gcttgagtga atgggtgaata ccgcatacct gtatttcagg aatcatattt 420
gattaaatg 429

<210> 16995

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B10

<400> 16995

tttttttttt gtgtatccaa agcacgcacg tacttcgtca aacagcagct gcatgttttc 60
agctcccttg tctgtacgta catattgatt ttattttacc tcaattgtta gagttgtttg 120
ttat 124

<210> 16996

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B4

<400> 16996

gggtccacga cgcgtccgaa aaaaaatcaa caaatcatg agcaagaaaa atctgaattt 60
aactgaaaat gaatgtatga aaaaactgac agttgcctca caagaagaaa aaagagaaaa 120
aaaggtctcg aaaaaaaagt aaggaacatg taaaagtacg tcaa 164

<210> 16997

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-C1

<400> 16997

ttcagcgctcc aaattgtgcg ggtgagattg gtctttctgc tctacagaaa gttgttgctg 60
ctgttcgaat ccttgcttac ggtattccgg ctgatgccgt tgacgaatac gtacgtattg 120
gggaatctac tgctcatgag gcattgaaac acttttgcac ggctgtccaa accgcgtttg 180
ctccgtatta tctccgtgca gcaaatgcag aagatatcgc acgccttctc caagttggcg 240
agtcacgtgg gtttccctggg atgcttggtg gtgttgattg catgcattgg gagtggcgta 300
actgcccaag ttcattggaag gggatgttta cagggcggtg taaacatcct accatgatct 360
tggaagctgt tgcgtcgtat gacctgtgga tatggcatgc atattttggt ctgccaggta 420
gttgcaacga ca 432

<210> 16998

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D1

<400> 16998

cccacgcgtc cgcgaggagg agatctcgtc ctccgccgag gaggaggacc agtccgacgc 60
cgccggctcc gtatctggcg aggaagggga tgacgacgac gaggatgctg cggcgccgcc 120
cgcgaggaa gctgagggcg aggggcagca ggaggaggag gtcgacgagg aagagatcga 180
agccgtcact accggcgctg gagctgagga cgaggaggac gccggtgccg ttaccgccgc 240
tgaaggcgac gacgagtcct agtccaccga ggacgacgag cccgtcgcga gggacaagga 300
cgatgacgac gagactgatg cagtgggttg gaagcgagag aaagcaaggc taaaagaact 360
ccagaagatg aagaaacata aaatccaaga aatattagat actcaaaaag aaaaa 415

<210> 16999

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E7

<400> 16999

tagctccgaa attccaggag atgtctgaga agaacctgga tgttgtgttc ctgaagctcg 60

actgcaacca ggacaacaag ccgcttgcca aggagctggg cataaagggt gtgccaacgt 120
tcaagatcct caaggggtggg aagggtcgtga aggaggtgac cggcgccaag atcgacgagc 180
tagcgcaagc catcgacaca gtcaagtcag actgacaaag aaagcaagtg atgcaactag 240
ctagtgtaga cgatgaatga atgagtcctt ggccggcaag gctgctagat acgtacgtac 300
gtacgtactc atcaacaatt aatgatggat gatggcaatg gcaaataatc agtcaatgat 360
tcatatatgc atgcatggac tgctatgcta gctagcagcc ctttgtaaata atattgttta 420
aggaaatgat tc 432

<210> 17000

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G2

<400> 17000

tactttgtgt ccttgatcca tctagtagtg ggtgtcgtat actgcctcat cagctggagt 60
gtcgggtctcc ccaagcgagc gcctatcaat ggcacgctcc tcaagcttct ctttccagtc 120
gccctgtgcc atgggtattgg tcacatcact agcaatgtgt ctttcgctgc tgttgagtc 180
tcatttgctc acactatcaa agctctggag cccttcttca gcgcagcggc tactcagttt 240
atccttggac agcaagttcc cttctctctg tggttttctc ttgcccctgt ggtcattggg 300
gtttcaatgg catcccttac tgagctttca ttcaactgga ctggcttcat caatgccatg 360
atatcaaaca tctcattcac ttacaggagc atttattcca agaaagctat gactgacatg 420
gatagcacca acgt 434

<210> 17001

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H5

<400> 17001

cagacgcgtg ggataaaaca ttataagtt ttaaaccattc aaattgtaat ctttctgaat 60
caatttcttt tgtaatcact ccgatgatgt agaagaaaat cctgatgtaa cttgtaatca 120

ttttgtcata aagaatttat ttccgctgca aaaggaaatc atcagaaaag gcagcataaa 180
aaagcaaaag aaaaaaaaaa aaaaaaaaaa gagaagaata aggaa 225

<210> 17002

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E5

<400> 17002

cagccctgag gtctctgaat ctacaaggat catctatgga ggttcagtaa ctgctgcgaa 60
ctgcaaagag ctggcagcac agcctgatgt cgatggtttc cttgtgggag gtgcttcttt 120
gaagcccgag ttcatcgaca tcatcaacgc cgccgccgtg tgaagtccgc tgaagatggt 180
ccaacccttc accctgttgc ggtgatgtgc tgaagacaga tcagactact tttttgttta 240
accgtgcagt gctatgtaag ctactaactt tgcgctgggtg cggatgctga tttccctccc 300
cctagctttt tgtgaggcta ctctacagct tgattcagct tgctaataat gtttgccctc 360
ggacatagcg atagtgggtg ttgtgtagcc cttttttt 398

<210> 17003

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B8

<400> 17003

cccacgcgtc cgggcaagtc gtcaatgttg ccaacaacct cagcaagata cttggtttctg 60
gootgtcgga accatgggtg cagtacctgt ccacgaccaa gttcgtcaga ggggacagag 120
agaagatgag ggttctgttt gggttcttgg gggagtgcct gaggctcgtc gtgcaagaca 180
acgagctggg aagcttgaag cttgccctcg aggggaagcta cgtcgagcct ggccctggcg 240
gcgacccgat ccgtaaccgc aaggtgctcc cgacagggaa gaacatccac gctctcgatc 300
cgcaggccat cccaaccacg gctgccttga agagcgccaa gatcgtcgtg taccgtctcc 360
tggagaggca ga 372

<210> 17004

<211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-E12

 <400> 17004

 acgcgcctca tcaacgccga gatcaacaag cagctcaacc aggcggagtt cgacgccctg 60
 ctacaggagt tcaagacaga ctacaaccag acccacttcg tgcgcaaccc cgagttcaag 120
 gccgccgccg acaggatgga gggcccgcctc cgccagatct tcgtagagtt cctcgagcgc 180
 tcctgcaccg ccgagttctc cggcttcctc ctctacaagg agctcggccg caggctcaag 240
 aaaaccaacc cggtcgtggc ggagatcttc tcgctcatgt caagggacga ggcgcgccat 300
 gctgggttct tgaacaaggg gctgtctgac ttcaacttgg cgctggacct ggggttcctg 360
 accaacgcta tgaagtacac cttcttcaag cccaa 395

<210> 17005
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-003-Q1-E1-C7

 <400> 17005

 aagtccaatc catttctctt tctgctgctt gtgatttggt catgcggttt gtaacgagga 60
 cctcacatct ggagcatgag aagtttgatg cagcacaatc ggggctaatt gagcgaggag 120
 aaaaatttgg ggagatatct ttaaaggctc gcaagacaat tgcaatgctt agtcaagatt 180
 ttatttatga tgggtgtact atacttgctc atgggtagtc cagagtagta ctggaagtgc 240
 taaagcttgc tgcattccat cgcaagctct tccgggtact atgcagagag ggcagggcag 300
 acagaattgg tttaaggatg tcagatgaac ttgcagcatg taaggatcgc tgttaagggt 360
 cgaattgatg tagctggttg cgtagtccat tgatgaagtt gacatggggg tttgttggcg 420
 ctgatg 426

<210> 17006
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-A12

<400> 17006

atctgaagga gaaagggaga gagacactcg tccccgtac cgtggcggag gcagacgtgg 60
tggttacagg aatgttgagt ttggtgatga ctctgagagg ccaccacgga gaaactatga 120
gcgccacagc gggactggcc atggctatga gatgaagcgt gatggcgcag ggcgagggaa 180
ctggggcact gccactgatg aacttattgc ccacgatgca taggactctc cgaagatgga 240
ggaggctgct cctgttgctg acaaacaagg tgagcagaat gatgccccag cagcagatga 300
gaacaaagat aacaaggatg ctactgcaaa tgaggaagaa gagaaggaag aggacaag 358

<210> 17007

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-F7

<400> 17007

tactcgagaa gctcaagcac aagaaaaaga gactcgtcca gtcgcccaac tccttcttca 60
tggatgttaa gtgccagggg tgcttcagca taacgactgt ttccagccac tcccagactg 120
ttgttgtgtg ccctggctgc caaactgtcc tctgccaaac cacatgagga aaggcaaggc 180
tcaactgaggg ctgctctttc cgcaggaagg gagactagac cggatgtggt cgtcaagttt 240
tgctctatgc cacatactaa cgtcatgaac tgccttttagc taacattttc cagaacttgt 300
tctc 304

<210> 17008

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F8

<400> 17008

ccacagcgag cgagagcaag ggcgccaaagc aaccaccgag agaacaagtc gcagccaaac 60
agccccgtct cccagcgaag cttgagcttg cattattcta ccatgtcttc catggagctg 120
ctccacgccc tcgtccccga gaagcagagc gaggaggagg tcgcgccccgc agcgacgacc 180

acgagcagca ggcgccaccgc cacggggcggg gacgagggcg cccacgtgct ccaggggtgg 240
 gccaaagagga agcgctcgcg ccgccagcga tcggaggagg agaacctcgc gctctgcttc 300
 ctcatgctct cccgcggtgg ccaccaccgc gtcaaggcgc cgccaacgcc ggtcccgtcc 360
 gcggcgccgg ccgcccgga gt 382

<210> 17009

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F10

<400> 17009

ccacagcgag cgagagcaag gcgccaagc aaccaccgcg agaacaagtc gcagccaaac 60
 agccccgtct cccagcgaag cttgagcttg cattattcta ccatgtcttc catggagctg 120
 ctccacgccg tcgtcccga gaagcagagc gaggaggagg tcgcgccgc agcgacgacc 180
 acgagcagca gcgcaccgc cacggggcggg gacgagggcg cccacgtgct ccaggggtgg 240
 gccaaagagga agcgctcgcg ccgccagcga tcggaggagg agaacctcgc gctctgcttc 300
 ctcatgctct cccgcggtgg ccaccaccgc gtccaggcgc cgccaacgcc ggtcccgtcc 360
 gcggcgccgg ccgcccgga gtccaggtgc tccgtctgcg gcaagtcctt c 411

<210> 17010

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F7

<400> 17010

aatccgtggc gctcctcggc ggcgcgcgcc tccccgcgc tccgcgctcc gccctectcc 60
 ctccggcgag cgtctgccag cttcgcttcc aagatgcacc gaggtctctc ctgctccgtg 120
 cgaaggccgc ttccgaggac acatcggcct ccggcgacga gttgatcgag gacctcaaag 180
 cgaagtggga cgccgttgag gacaagccca ccgtcctctt gtacggcggc ggcgccgtcg 240
 tcgccctttg gctgacgtcc gtggtcgtgg gcgccatcaa cgccgtgccg ctgctcccca 300
 agatcctgga gctcgttggg ctccggtaca ccggtggtt cgtgtaccgc taccttctct 360

tcaaggaaag caggaaagag ttggccgccc acattgagac cttgaagaaa aaaatagctg 420
g 421

<210> 17011

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H7

<400> 17011

aatcgacaag cacgcgcgga cggcgcctggc cttcgtgacg ctcaagcacg acgggggagcg 60
cgagttcatg ttctacagga acccgagcgc ggacatgctg ctgacggagg cggagctgga 120
cctgggcctg gtgcggcgcg ccagggtgtt ccactacggc tccatctcgc tcatctccga 180
gccgtgccgc tcggcgacaca tggccgccc atgcgccagcc aaggcggcgg gcgtgctctg 240
ctcctacgac cccaacgtgc gcctcccgtc ctggccgtcg cccgacgccg cacgcgaggg 300
catcctcagc atctggaagg aggcgcgactt catcaaggtc agcgacgacg aggtggcctt 360
cctcacgcgc ggggacgcca acg 383

<210> 17012

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A10

<400> 17012

aacaaagcta ggcctaactt gaaggtgggc atttgtggag aacacggtgg agagccttcc 60
tctgtggcct tcttcgcgaa ggctgggctg gattacgttt cttgctcccc tttcaggggtt 120
ccgattgcta ggctagctgc agctcaggtg cttgtctgag gctgctcctt cattggcaac 180
cggattgcct gctgctgggtg gatgtggtga tcaacagtat tattacagag ccatgctatg 240
tgaacattac tagtagcagt gtcataaaa gctacaatcc catgtccttt ttttccccag 300
tcaagttaaa cttccaaaac ggctccatgg ggtcaaaagc tctgttcttc aatacatcaa 360
gcaattatcg aataatatac gttgcaaaaat ttttt 395

<210> 17013

<211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-002-Q1-E1-D6

 <400> 17013

 catgaactgg ggcataaagt gactcttata cgacaagttg ctgagaaaagt gttcgccaat 60
 gtgggcaaga ctatccggta caaagttgga aactgattg agatccccag ggcagctctg 120
 gtggctgatg agatagcgga gcaggctgaa ttcttctcct tcggaacgaa cgacctgaca 180
 cagatgacct ttgggtacag cagggatgat gtgggaaagt tcattcccggt ctatcttgct 240
 cagggcattc tccaacatga ccccttcgag gtcctggacc agtggggagt gcgcgagctg 300
 gtgaagcttg cgacagagag gggcgcgtca actacggcta actttagtagt gcgcatttgt 360
 ggaaaagacg gtggagagcc gtcc 384

<210> 17014
 <211> 232
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-003-Q1-E1-C2

 <400> 17014

 aatcaggtgd ttgtctgagg ctgcctcctc attggcaacc ggattgcctg ctgctgggtg 60
 aagtgggtgat caacagtatt attacagagc catgctatgt gaacattact agtagcagtg 120
 ctcataaaag ctacaatccc atgtcctttt tttccccagt catgtaaaac ttccaaactg 180
 ctccatgggt caaaactctg ttcttcaata catcatcaat tatcgattat at 232

<210> 17015
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-E6

 <400> 17015

 acccacgcgt ccgcgctgaa tgggtcgact ggtgaggtga tccttggaag gcagccgctt 60
 tccccaccag cccttagtgg cgatctggga actttcatgg cctgggtgga tgatgttaga 120

aagctcaagg tcctggctaa cgccgatacc cctgatgatg cattgactgc gcgaaacaat 180
 ggggcacaag gaattggatt atgccggaca gagcacatgt tctttgcttc agacgagagg 240
 attaaggctg tcaggcagat gattatggct cccacgcttg agctgaggca gcaggcgctc 300
 gaccgtctct tgccgtatca gaggtctgac ttcgaaggca tttccgtgc tatggatgga 360
 ctcccgtga ccatccgact c 381

<210> 17016

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-C3

<400> 17016

gagataatgg ttcctcttgt tggaacacca caggaactgg ggcatacaagt gagtcttata 60
 cgccaagttg ctgagaaagt gtccgccaat gtgggcaaga ctatcgggta caaagttgga 120
 acaatgattg agatccccag ggcagctctg gtggctgatg agatagcgga gcaggctgaa 180
 ttcttctcct tcggaacgaa cgacctgacg cagatgacct ttgggtacag cacggatgat 240
 gtggggaagt tcattcccggt ctatcttgct cagggcatcc tccaacatga ccccttcgag 300
 gtccctggacc agaggggagt gggcgagctg gtgaagtttg ctacagagag gggccgcaaa 360
 gctatgccta acttgaacgt gggcatttgt ggagaacacg gtggagagcc ttcctct 417

<210> 17017

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-013-Q1-E1-A5

<400> 17017

gccaggttgt gttcactgct gaggatgctg aagcatggca ttcccaaggg aaagctgcta 60
 ttctggtaag ggcagagacc agccctgagg acgttggtgg catgcacgca gctgtgggga 120
 ttcttacaga gaggggtggc atgacttccc acgctgctgt ggtcgacgt ggggtgggga 180
 aatgctgcgt ctggggatgc tcaggcattc gcgtaaacga tggggagaag ctctgacga 240
 tcggaggcca tgtgctgcgc gaaggtgagt ggctgtcgt gaatgggtcg actggtgagg 300

tgatccttgg gaagcagccg ctttccccac cagcccttag tggatgatctg ggaactttca 360
 tggcctgggt ggatgatggt agaaagctca aggtcctggc taacgccgna taccctgatg 420
 atgcattgac 430

<210> 17018
 <211> 307
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-013-Q1-E1-D8
 <400> 17018

aagtacggcg tgggcaagag gatcaggctt ccctacacca gaaagatcat cgacgccatc 60
 cactccggcg agctcctcac cgccaactac cagaagaccg aggtgtttgg cctggagatg 120
 cccactgaga tcaacggggt gccgtcgga atcctcgacc cgatcaacac ctggacggac 180
 aaggtcgcgt acaaggagaa tctcctgagg ctgggggggc tcttcaagaa gaacttcgag 240
 gtgttcgcca gctacgacat cggggacgac agcagcctga ctgacgagat cctcgccgca 300
 ggcccca 307

<210> 17019
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-029-Q1-E1-A6
 <400> 17019

acccacgcgt ccgccagggc acagcatcag tggtccttgc aggtttgtta gcagcactca 60
 agatgggttg tgggaccctg gcagagcaga cttatttggt ccttggtgct ggggaggctg 120
 gaactgggtat tgcagaactt attgctcttg agatttcgaa acagacgaat gctccaattg 180
 aagagtgccg caagaagggt tggctggtgg actcaaaggg tttgattggt gactctcgta 240
 aaggctccct tcagccattc aagaaacctt gggcgcatga gcacgagccc ttgaaaacct 300
 tgtatgatgc tgttcagtcc atcaaacctc cagttctgat cgggacatct gga 353

<210> 17020
 <211> 383

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-H9

 <400> 17020

 acgtggggag agtgtggaca acgtggtgga tacttcgaaa tgacaaatct tctcctcaaag 60
 acagtagatg agatctacaa ggttgcatac atagtactga gtccgaatgt tcccgggcaa 120
 atcttttatgg gagtgcgtgg taaccctcct aaacctggag atatctcata cccagttca 180
 ctgccgaaag caagtcctac ctgcaatctt tgaggaggag agcgcgcatg atgacagacg 240
 gtttcaacag ctgccgaaat gtggtgtgca atttcacaga aggagctatg tactctttcc 300
 cccaaatata gctgccagca agagccatcg aggcggcaaa gagagccggc aaagcagcag 360
 acgttttcta ctgcctcaag ctc 383

<210> 17021
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-004-Q1-E1-F6

 <400> 17021

 agaacatcta tgttgacaac aagaaattta actctttcaa gaagattgca agatccatgg 60
 gatacggcga ggatgatctc cctctagtat catttcagtc tgtctccaaa ggatactatg 120
 gagagtgtgg taaaagagga ggttacatgg agattactgg cttcagtgtc ccggttaagag 180
 agcagatcta caaggtagct tcagtgaacc tgtgctccaa tatcactggg caaatccttg 240
 cgagcctcgt catgaatcca ccaaacgttg gggacgaatc atatgcttcc tacaaggcac 300
 agaaagatgg aatccttcag tcttttagctc gccgtgcaaa ggcaactggaa gatgcattca 360
 acacgcttga gggattttca tgtaacaacg ctgaaagagc aatgtacott ttccctc 417

<210> 17022
 <211> 91
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-014-Q1-E1-A8

 <400> 17022

cactcttgtt gtcaagtcca agtggaaaat cttggcatat tatacatatt gtaataataa 60
 acatcgtaac atctgcatgc tgttttgtaa t 91

<210> 17023

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A10

<400> 17023

taaagtcact cgggaggacg cgtggggcgcc ttcaagttcg ccacgacaa ggacgtcagg 60
 aacttccagg tcctcaaaga gatgtacaac gagtggccat tcttcagggt caccctggac 120
 ctgctggaga tggttttcac tagaggatag ttcggcactg gcagattgtt cgaccatatt 180
 cctgtcgagg catttgacat accctggagg atgccgctca cggac 225

<210> 17024

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-B8

<400> 17024

aaaaaatcca gcgggacatg gcagagcgtg ggcacagcct tgaaagcatc aaggccagta 60
 tcgaggccag gaaaccagat tttgatgcct ttattgatcc gcaaaagcag tatgctgatg 120
 ctgtgattga agttctgccg acccagttga ttcccgacga caacgaagga aaggtgctgc 180
 gtgttaagct catcatgaaa gaaggggtga agaacttcaa cccggtttat ctctttgacg 240
 aaggatcgac catcagctgg gtgccttgtg gaagaaagct cacatgctct taccctggca 300
 tcaaattttc ctatggcccg gacacttact tcggaaacga ggtatctgtt ctggagatgg 360
 atgggcaatt cgacagacta gatg 384

<210> 17025

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A11

<400> 17025

acgcccacgc gtccgtcccg ttcccgatcc tcatcacctc aaccccgcgc cgccccctcc 60
ccaccaccct cgccatggtc agcgccgccg cctcgccgcc gccgtccggg aagccgacgc 120
aggacgagct gaagcgcttg gcggcgccacc gcgcggtgga gctcgtggag cccggcatga 180
cgctgggcct gggcacgggc tccacggcgg cgacgcgct ggaccgcctg ggcgacctcc 240
tccgcgcggg cgcgctgccg ggggtggccg gcgtgccgac ctcgctcaag acggatgcgc 300
aagcggcgcg cgtcggcatc ccgctgctcc cgc 333

<210> 17026

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F7

<400> 17026

gagcagagcc ggaaccccg gtcccgcggc gacttcacca tccttctctc ccacatcgtc 60
ctcggctgca agttcgtcgc ctccgccgtc aacaaggccg ggctcgccca gctgatcggg 120
ctcgccggcg agaccaacgt gcaggagag gagcagaaga agctggacgt cctgtccaac 180
gaggtgttcg tcaaggccct cgtcagcagc ggtcgcaccg tacgaatata cctccttgtc 240
cactgcgatt atatattgtc cgtttgagtt ccgagagtgt tctgctttct gactcggg 298

<210> 17027

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H5

<400> 17027

acgcccacgc gtccggcaag cccatcacgg tcgtctccag cagggaccgc ctcaagctcc 60
catgggggtga gtcggcatt gacatcgta tcgagggcac cggagtcttc gtcgacggcc 120
ccggcgccgg caagcacatc caggccggcg cgaagaaggt gatcatcacg gctcccgcga 180
agggcgccga catcccgacc tatgtcgtcg gcgtcaacga gggcgactac gaccacagcg 240
tcgccgacat catcagcaac gcgtcctgca cgaccaactg cctcgcgcca ttcgtcaaga 300

tcttgacga ggagttcgga atcgtgaagg ggaccatgac gacgacgcac tcgtacaccg 360
gcgaacagag gctgctggac gcgtcccacc gc 392

<210> 17028

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D3

<400> 17028

tggcgtcgtc catgctctcc gctaccaccg tgccactcca gcaggggggc ggctgtccg 60
agttctccgg gctcaggagc tccgcgtcgc tgcccatgcg ccggaatgcc acctccgacg 120
acttcatgtc cgccgtctcc ttcaggaccc acgcggtcgg caccagcggc gggtcgcggc 180
gggcgccgac ggaggcgaag ctgaagggtgg ccatcaacgg gttcggccgc atcggggcgca 240
acttctcgtc gtgctggcac gggcgccgcg acgcctcgcc cctcgacgtc atcgccatca 300
acgacaccgg cgggtgtcaag caggcgtccc acctgctcaa gtacgactcc acgctcggca 360
tcttcgacgc cgacgtcaag cccgtcggcg acaacgccat ctccgtcgac cgc 413

<210> 17029

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-F5

<400> 17029

acgagtctcg tccaccgctc atcctcctag ctctctact cgccagtcgc catgggcaag 60
attaagatcg gaatcaacgg cttcggaagg atcggcaggc tcgtggccag ggtcgccctc 120
cagagcgagg atgtcgagct cgtcgccgct aacgaccctt tcatcaccac ggactacatg 180
acctacatgt tcaagtacga caccgtccac ggccactgga agcacagcga catcacactc 240
aaggactcca agacccttct cttcgggtgac aagccgggtca ccgtctttgg catcaggaac 300
cctgaggaaa tcccgtaggg tgaggctggc gccgagtatg tcgtggagtc caccggcgctc 360
ttcactgac 369

<210> 17030
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-012-Q1-E12-B5

 <400> 17030

 gcttggctag ataggattaa ttagttcttg gttattgatt ggtgaagtct tgtagttgca 60
 tatggttggt cattttcttt cttaacactt gcttttagact tgaatgaatt aagaaggggg 120
 aaacactttt gtgggtgtaa ataatttagt tcaagcaata ggtaatccaa cgatcatgat 180
 gcttgttatg gtttagtagt agcttatcta tgcttttctg ctcgctttta cctgtgggtg 240
 catatcaagt attattaaaa tgccttggtg tctaaatatg atatattgtg ttgggggcct 300
 tcggcttccg aaggtcctca aaaacatgat ttaacaatgt ttctggagta taatgtgtga 360
 acaggtatct tcggacttga atcagaaagg gagaagctca caagat 406

<210> 17031
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-C10

 <400> 17031

 agcttctatc aagccgaagg tacaaatgta attcgatatt gttcatattt gttcatgata 60
 atataataaa actatcttaa tgatgtc 87

<210> 17032
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-E11

 <400> 17032

 cgacggccgc tactggacca tgtggaagct gcccatgttc ggctgcaccg acgccacgca 60
 ggtacaagga gctgcaggag gccatgccg cgtaccgga cgcttccac cgcgtcatcg 120
 gcttcgacaa cgtcaggcag acgcagtgcg tcagcttcat cgcttacaag cccccggca 180
 gcgagtagag accgtggcta gatcgacca tggccatgcc tctgctgtt gatcggatca 240

ccttcttgca ttggttctctc tctctctctc cctccttttt tttcccttta tctcatcatt 300
tcttttctcc tgcattgcaat gggtcctttt gcttccaaca attctcctgc tgatgtatcc 360
agcatggcat catccatcta caattacgta cgtagtgcaa cgactgtc 408

<210> 17033

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D1

<400> 17033

cccacacgtc cggtctgata tactactact actagctggc acacatacta gccagcctgc 60
cagccagctt gccatggcgc ccaccgtgat gatggcctcg tcggcaaccg ccgtcgcccc 120
gttccagcgt ctcaagtctg ccgccagcct ctccgtcgcc cgccgcagca ccaggagcct 180
cggcaacgtc agcaacggcg gaaggatccg gtgcatgcag gtgttgccgg cctacagcaa 240
caagaacttc gagacgtgtg cgtgcctgcc gccgctgtcg acggacgacc tgctgaagca 300
agtgggctac ctgctgcgca acggctggat agcctgcctc gagttcagca acctcgggtt 360
cctgtag 367

<210> 17034

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G1

<400> 17034

cttccaccgc gtcacgtggc tcgacaacat caagcagacg cagtgcgtca gcttcatcgc 60
ctacaagccc ccgggcagcg actagatcgc gcccgccggc cgccccccgc cggctagcta 120
gctagctagc tcttgcgtga gctagtagct agtgccatgc gtcgtctctg tcgttcgggtt 180
ttgcttcggg tcaccgtgta ccttttgctt gcttggtttc ttctttcctt tgttcctttt 240
attttcatca tttccccggc catgggtcct ttgctttcca tcagttctct gctggatgtg 300
atgtatccat tgttgcaatc atggccttgc attggctacc tctatacgtg ctacatggct 360
actgcaacgc ctatatatac ttgggggtgag gaacatgtga atgcaagctc cggctatcat 420

atacatg

427

<210> 17035

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E1

<400> 17035

ggccccggctc gatctaatac tactactagc tggtacacat actagccagc ctgccagcca 60
gcttgccatg gcgcccaccg tgatgatggc ctcgtcggca accgccgtcg ccccgttcca 120
gggtctcaag tccgccgcca gcctccccgt cgcccgccgc agcacagga gcctcggcaa 180
cgtcagcaac ggcggaagga tccggtgcat gcaggtgtgg cgggcctacg gcaacaagaa 240
gttcgagacg ctgtcgtacc tgccgccgct gtcgacggac gacctgtga agcaggtgga 300
ctacctgctg cgcaacggct ggataccctg cctcgagtgc agcaagctcg ggttcgtgta 360
ccgcgagaac tccagctccc cgtgcgacta cgacggggcg tactggacca ggtgg 415

<210> 17036

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B4

<400> 17036

cactttcttt aggatttttt tttctatggg tatcctgatt gtaaaaggca tccagtcgct 60
ttgagaccaa caatatttga tcgccttcca gaattcagaa cctgcggtta attcaccag 120
ccatttgcaa gctgctttga taatttcagt accttcacga gcaagatctc gcccttcgtt 180
acgagcttgt acacaggcgt cgaacgccac acgattagct gctgcaccag gtgcatttcc 240
ccaaggatgt ccgaaagtgc cgccaccaa ttgtaatacg gaatcatctc caaagatttc 300
ggt 303

<210> 17037

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A2

<400> 17037

cggacacttg ggcggaagcg tgggctgccg cgcaacggct ggatattctg cgacgagttc 60
agcaaggctg gcttcgtata ccgcgagAAC tccagctccc cgtgccacta cgaatgccgc 120
tacaggacca tgttgaagct gccgatgttc tgctgcatct acgccacca ggtgtcaacg 180
gatctgcacg atgccatcaa atcctaccgc gacgccttcc acggcgtcag ctgattctac 240
aacatcaagc acacgcactt cgtcagcttc atcacctaca agccccctgg cagctgactc 300
atcgctcccg gcgtgccgac cagcccggtt 330

<210> 17038

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D4

<400> 17038

agaccatccc atgcagatgc aacctatgac ttcaagtatg gagttagagc tgtgcagggg 60
ggtggaaggt catcagccag agaaaccatt ggcaggggtgg ctgcaggagc tcttgcaaag 120
aaaattctaa agctcaaatc acgagtggag atcttggcat ttgtttctaa agtgcaccaa 180
gtcgtacttc cagaagatgc agttgattat gagactgtaa ccttgggaaca tatagagagc 240
aacatcctta gatgtcctga tccagaatat gcagagaaga tgattgctgc cattgatacc 300
gtacgagtta gaggagattc aattgggtgg gtcgtcacat gcattggaag aaatgttcct 360
cgtggctgtg gatccccctgt ttttg 385

<210> 17039

<211> 206

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-001-Q1-E1-A1

<400> 17039

cccacgcgtc cgaccggccc cactcgcgtg gttcctcatg gagagcccca cctctggct 60

cccacgcgtc gtctctctcc gctggccgcc gccgcgcgtc tccggccac tcgcgcact 120
 ccccgccgcy ctctacgct tccactacgt cnagcgcag ctggtcaacc ggctcgccct 180
 cgccggcctg cgccggccccc cggccc 206

<210> 17040
 <211> 347
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-001-Q1-E1-A2
 <400> 17040

aacagcgta ggtcagccgc cgcgcgctcc gcctcgccca ggcagcagc cgccgcagca 60
 catcgctatc tcgatctcag gcatggcgga ggtggcgag caacaggaca cgccgaagct 120
 gttcaaccgc tggaccttca atgatgtcca ggtgaacgac atctcgctga acgactacct 180
 cgctgtgaac gcgacgaagc acgcgatgta cctgccgcac accgcggggc gttactccaa 240
 caagcggttc cgcaaggcgc agtgctcgat cgtcgagcgc gtcacaaact ccctcatgat 300
 gcacgggtcc atcaacggaa agaacgtcat ggctgtccgc atcatca 347

<210> 17041
 <211> 286
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-001-Q1-E1-A3
 <400> 17041

cccacggcct ccgaacacgc gtcaggcgag cggtcgccct tttttttttt tttttttttt 60
 tttttggcaa gaaaagtaat aactatacga ttttgggaac gaaagcaaaa tacgaacgag 120
 cttctgacgc tactactcaa gatagataac ggttctacac atgttaccat cacaagttca 180
 tcaatatgac tccaaggtgg taggtaagtc taaggggcaa ctttggttaca ctcacgaagc 240
 agtggaaaac tatacaaaat tactgccccg gtatcacacg tcttca 286

<210> 17042
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-A4

<400> 17042

actagttcta gatcgcgagc ggccgcccgc gatcttagga acgccgaggg tcgccgccgg 60
tagaagaaca gcttcggaag ctggtcggtc gggacgggtgc gtcgtcgagg tgtccgcgtc 120
ctcgtccccg gccacggccg cgggtggcgac ggaggtgccc ggggtgatga aggcctgggt 180
gtaccacgcy tacggggacg ccggcgtgct caagctcgac gaggccgcgg ctgtgccggc 240
cgtgggcgag gaccaggtgc tcgtcaaggt cgtcgccgcg gcgctcaacc ccgtcgatgc 300
caagcggcgg ggccgcaaag tccaggccac cgactcccct ctgcggaacg tgccggggta 360
cgacttgctc gccgtcgctc tcaagggtggg 390

<210> 17043

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-A5

<400> 17043

accggtggcg ggttgacata tgcaagggtt aagtgtaca tatgtcgtgt gattggagat 60
cctcagctga gtataatcga ttcggatcgc cgtacctcg cggttatgaa gacttgggtca 120
cttccttgca acctaaagtc aggatgtgaa cacgatggat aaaaatgatg ttgtattgat 180
gagatgatga aattagacta gatgcaaaca atgtctatta atattcaatc tggcggttaa 240
atattgaaag taaggactca ctttagtaag ctattttctgc aaaagtatct aagttgattc 300
ttgctaaagc ctctccttga ttctatttta tccagcatac ccttgagagt cttttcctta 360
gtcgggtaag acttgctgag taattccata ctcagggttt tattccctgt tgtttttc 418

<210> 17044

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-A7

<400> 17044

tgatcctgag atgaagcaac actcgtttct ttttgaaatt ggttaccgga aaatcgaaga 60

taattgcaag ccaaggcacc gtttcatgtc atcatatgaa cagaaagtc aaagttggga 120
 taagggttat cagtacctac tttttgctgc agagccctat gaaattattg cattcaagat 180
 accaagtaca gagattgata aatcagcgaa caaattcttc tcttactggg atcctgacaa 240
 gaaggaatat ctactgcaac tgtacttcaa gccaaagaccg ccagaagcta ataaaccacc 300
 accagctcct ccgggggactt tgcctaattgg gactgggggtt cctgttgctc caacaaggcc 360
 accggcgcaa gcccctccac ccctgcgaca agttccaccg cccccgcct catgcagct 419

<210> 17045

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-A8

<400> 17045

agcaggcagc gagtgcaaac aaccgcgaga gcgatcagcg atgggctcct tcttctcgac 60
 cttagtgacg cccctccgc ccgcgcgga cgaccgaac tgcgccgtgg tggccgcgca 120
 ctccaaggcc acctacgacg agcagtgggc ggcccacaag agcagcagca agctgatggt 180
 gatcgacttc tcggcgtcct ggtgcgggccc ctgccgcttc atcgagccgg ccttcaagga 240
 gctggcctcc cgcttcaccg atgccatctt catcaaggtc gacgtcgacg agctcgcgga 300
 ggtcgcaagg acatggaagg tacaggcgat gccaacgttc gtgctggtca aggatgggaa 360
 ggacgtacgc cgtgtgattg ggggcaagaa cgacgagctt gagaggaaga tcaggatg 418

<210> 17046

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-B10

<400> 17046

atagccgcac gcatggcgaa ccgaagcgaa gccaaaacgc ccattcccct tcgccctctt 60
 cgaccctagc aagaagacgg cggcggagat ggtgtactac gcgcttttgg tgggcgcaga 120
 gctggacggc ctcaccaacc tgcagcccag cgggcgctgc gacgaccca gcttccccta 180
 ctacctcaag ctcaagtgcg agaactgcgg ggaggtcacc gccaaagtcca cctacgtcac 240

tctcagcgag caagtcgacc tgcccaaggg acatggcacc gctcacctcg tccagaagtg 300
 caagctttgt gggagagatg gaacaattgt gatgattcct ggtcagggga cgccacttac 360
 tattgagcag agccaggaag aagagaagac ttgtttgatg gtgtttgact gc 412

<210> 17047

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-B11

<400> 17047

cggacgcgtg ggcgctgtac ccccccgca gggcggcggc ctctgcccg ctgcccgtcg 60
 ccgcccgtcc ctgctcgaga aaagcgttct tgacgtgcc gctgctgggc cactggacca 120
 cggccgcgcc gccgcgcgcc atccccctct cgctgctgct gtccccggcg ctcatcgctg 180
 ccgtgcagga cctgtacgac ttcattctgt gggcccgct ggtggacagg atcggctaca 240
 ccagtgagaa gatcgccgag tccatcgacc gctggcttct cgccggggct ccggtggcgc 300
 gcctcttccg cctcaacgag ctccagctgt cggacg 336

<210> 17048

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-B12

<400> 17048

cccacgcgtc cggcaggcgg tggaggagt gtaccggcag atgcccata tcacgcgtc 60
 ctacctcacc gccgctgtcg tcaccaccgt cggtgcacc ctcgaaatca tttcgccgta 120
 tcacctgtac cttaaccga agctcgtggt gcagcactac gagatttggc gcctcgtcac 180
 caacttctc tacttccga agatggattt ggattttcta ttccacatgt tctttcttgc 240
 acgatactgc aagcttctgg aggaaaactc atttagagga agaactgctg acttttttta 300
 catgctcttg tttggtgcta ctgtcctaac tggcattgt ctgatcgag ggatgatacc 360
 ttacatttct gagacatttg 380

<210> 17049

<211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-001-Q1-E1-B2

 <400> 17049

 agttaacggt gtcattctat tgtgagtcct gttgtgataa atttggacaa gtatatatat 60
 gtcggttata attcgtatga atgggttagct tgtttatgtt ggggtccgagg aatgtaatcg 120
 atgggttcacc gttcctctgg aaaatgttgt gtttgcaatt tagagagtat tgttgcaatg 180
 actattatgt ttgacaacag aatactcaga aagtattgtt gcaactccaa aaaaaagaag 240
 aagaaaaggg agagcgggca g 261

<210> 17050
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-001-Q1-E1-B3

 <400> 17050

 atgcattgga ggagtggatg caaaagttac tttctgacat tgacttgtca agaagtgtct 60
 ctgttgctgc tttttttgag cttgaagctg ctgcacgttc atatttccaa gaacggaatg 120
 ggcgtccttc tgaacagtct gacaggagca actggtaatg gtgtgcttgg agaagctatc 180
 ttagatcagt ccgatgagct tgttagtaat gccttgaatc acaggaaacg gaaccttgta 240
 ttggaacatg atggtaggaa tggttcagta gcgtcttata ggggagttgt ttcagatgag 300
 gacogtgtaa ctaatcccg gcatgctagg aaagactctg ctgaaagtat ttggagtgat 360
 ttgagttctt taagaggaag tgaattatct attccagggg ttagtagttt cctttggga 419

<210> 17051
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-001-Q1-E1-B7

 <400> 17051

 accacgcgtc cgcccacgcg tccgcgcgc accagcgcca gcccgcgcgc tggtcagaag 60

gaggtccttc accgtgcgcg cctctctccg caaggccacc ggcaccgccg ccgtggcaat 120
ggctgccagc gccctgcttg ccggcgggtgc catggcccac gaggtgctgc tgggcgcagg 180
cgacggcggg ctctgtcttc agcccagcca gttcacgcgc aaggccggcg acaccatcac 240
attcaagaac aacgccggct tcgcgcacaa cgtcgtcttc gacgaagacc aggtgccgag 300
cggggtcgac gccaccaaga tctcgcacga ggagtacctc aacgcgccag gcgagaccta 360
ctccgtcacc ctcaccgtgc cgggaacct 389

<210> 17052

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-B8

<400> 17052

accacgcgtc cgcacacgcg tccgggctag aaaagcataa ttattataat tagtcatata 60
tcactagtta gtatctgctt aatgctttgt tataagtgtt tcgtcatctt caacgtagat 120
taattgtttt ataagattcc tctatatatt catacatgtg cattgtgcat cccatgaggt 180
acgataatta atcgcgtgat gcggaagacg agccaagtcg agcccaagcg cgggttacta 240
cgcatggtaa tgctgatgga agaacctccc tcatcagggtg ctaggacaag gatactcgtc 300
aagtgggtcat cgtctaacaa cactaaccta gtgttatcca ggttacgagt cacttgattg 360
tgattgggtg taaacgctgg tg 382

<210> 17053

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-B9

<400> 17053

aaagaagaag gacggtggcg gcggcgcccg gcccgatgag aagaaggata tggataatga 60
gaaggataat aaagcggacg gcggcgataa taaggcggac aatgagaatg gcggcgcccg 120
ctcctgcgtg atagatgaag gccgacaatg aaaaaggcag cggctagaag aatgccgaca 180
aggataatgg ctgcggcgag aataatgcct gacaatgaga atggtgccga caagcccatt 240

gaggataatg aataagccca atgacgagac tgttacgctg aagattcggc tgcac 295

<210> 17054

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-001-Q1-E1-C1

<400> 17054

cggacgcgtg ggcggacgcg tgggtttttt tttttttttt tttagataac ggttctacac 60
atgttaccat cacaagttca tcaatatgac tccaaggtgg taggtaagtc tagggggcaa 120
ctttgttaca ctcacgaacc aatggaaaac tatacaaaa tactgccccg gtatcacacg 180
tcctcatggt ctttattggt gtcaaagttg cattaggggc aacgccatca cggcaccaaa 240
aactgaaaac atgaccagca ccatccagaa gggcacgcc ttcttctggt tcttgtcacg 300
gcgtacctca gccagtgggt gcgccctatt ggcgacgacc ggagcttgct ggacagcaag 360
ggatggaaca ngtgcaggat tctcctgtgg caccggctct gc 402

<210> 17055

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C11

<400> 17055

tgcggggtcg acacacgcct ctagtgtcg tcatgcaata aatatgatga ggaaccaacc 60
tcgaggtggt cacatattca accttgatgg tgctggttct gatggaaggc caactccaag 120
atttgctgca tatggtgcaa caaagagaag tgttgtgcat ottacgaagt cacttcacgc 180
tgaattgcag atgaatgaag tgaataatgt gatggtgcac aatctatcgc ctggcatggt 240
cacaacagat cttcttatgt ctggtgcaac taaaaaaca gcaaaatttt tcatcaatat 300
attagctgaa cctcctgatg tggttgcaga ctaacttggt ccgaacgtca gagaaatccc 360
taccaggcaa tccatgaagc caacctaga 389

<210> 17056

<211> 437

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-001-Q1-E1-C2

<400> 17056

```
ctcgcgagtc gacacaacac cctaaactga ctcgtactac ttgcacggta gctgccccgt 60
catcgaaggc cagaagtggg ccgcgactaa atggatccat gtgagggtcat ttgacctcac 120
cgtcaagcag ccgggtccct ctgatggatg tgaggacgac aatgtcctct gcccccagtg 180
ggcggccgtg ggcgagtgcg ccaagaaccc taactacatg gtggggacca aggaagcacc 240
tggcttctgc cggaagagct gcaaagtatg cgcagagtaa gcaaccattg ggatattctt 300
ggccggcgcc ggcggcctgt gggcggcgac gattccgtcg ttgacgttgc ctgcaagtgc 360
cctgtacttg tcnctcctgg tgagaggctt gtgcactcgt acgagagcgt ttcggtatcc 420
accggcggag agggatt 437
```

<210> 17057
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C3

<400> 17057

```
aacacgcgtc agaatgtgtt cacggacctg taatgcttgc tccttgtcat atgaccttgc 60
tctaaacatt tgtgatgaag ctgtcaaggc aatatatttt ctctaaatat ttagcctaaa 120
aaaaaaaaa aaaaaagggc gagttctaga tcgcga 156
```

<210> 17058
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C4

<400> 17058

```
ggactcgctt ccacggctcc accatgtatc ccaaggcggc agacgaaggc gcgcagccgc 60
tggccacggg catccccctt agcggcggcg gcggctacta ccaggcgggc ggcgcgatgg 120
```

cggcggtcgtt cgcggtgcag ggcagggcgc ccgtcgccgc ctggtccacc gggctctgca 180
 actgcttcga cgactgccac aactgctgcg tgacgtgctg gtgcccgtgc atcacgttcg 240
 ggagaccgc ggagatcatt gaccggggct ccacgtcctg cggcaccagc ggggctgtgt 300
 acgcgtcgt catgctgctc accggctgtc agtgcgtcta ctctgcttc taccgcgcca 360
 agatgcgcgc gcagtacggc ctccaggtga gcccctgctc cgactgctgc gtgcactgct 420
 gctg 424

<210> 17059

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C5

<400> 17059

agccgcgtcc cagtgcgaag agaccacgac tcagatggcc agccgctggg tccggcccga 60
 ggtgtaccgc ctgttcgcgg caacggggct ggccgtcgcc atctgcggat ttcagctctt 120
 ccggaacatc accggcaacc cggaagtcag ggtaaacaaag gcagggaggg cagctggtgt 180
 gcttgagaac catgaggagg ggaggcggtta cgccatgcat ggcctaagaa gctttgtgca 240
 cgacaagact cctgagatca tgcttcgagt taacaagtgc ttcactgacc ctaagtgaag 300
 catgttgatt ggcatactac tactactact tgctactggg gattttacac tttgctggca 360
 actcaatatg ttggggacat ccctgacctc taaaagtact tttgagtgtc tggatgatgac 420
 ctgct 425

<210> 17060

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C6

<400> 17060

accacgcgtc cgcccacgcg tccgcccacg cgtccggtta gcaggataga gagggagagg 60
 agcagaagag agcagagggc cagaggcgca gaaggcagtc gcggacagga ggaagaggaa 120
 gaagaagcgg cagcgagcga ggatgccgtg cctgaacgtg tcgaccaacg tgaacctgga 180

gggggtggac acctcgcga tcctcgccga agcctccaag tccgtcgcca acatcatcgg 240
 caagcccgag gcctacgtga tgggtgttct caaggggtcg gtgcctatgg catttggagg 300
 taccagggag ccagcagctt acgggtgagct ggtttccatc ggaggcctga accctgatgt 360
 gaacaagaag cttagtgtcg ggatcgcttc taccctggag tcaaagctgt cggttc 416

<210> 17061

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C9

<400> 17061

accacgcgtc cgccacgcg tccggcaacg acctcaagtt cccaacttc ggcacatcaaga, 60
 cggccgcca cgccaagatg tggagcgagt ccggcacgtt catcgggtac gtggccgtgt 120
 ccaccgacga ggagacggcg cggctcggcc gccgggacat cgccgtggcg tggcgcgga 180
 ccatcaccgg cctcgagtgg gtggccgac tgacggccaa ccagatcccc ctgcgcgaga 240
 cgggcgtccc ctgcccggac ccgacgtga aggtggagcg agggttcgcg gcgctgtaca 300
 cggacaagg cgccggctgc cgcttctgcc ggtactcggc gcgggagcag gtgctggccg 360
 aggtgcgcaa gct 373

<210> 17062

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-D1

<400> 17062

ctggatcaac agctgttggc aaaaaactga tggctgaatc tgcaaatact gtgaaaaagg 60
 tctctttgga acttgggtgg aatgcacctt gcattgtttt tgatgatgca gacattgatg 120
 ttgctgttaa aggcagtctt gctgccaagt tccgtaacag tggacagaca tgtgtttgtg 180
 caaacaggat attggtgcaa gaaggtatct acgaaaagtt tgcacatgca ttcacatcaagg 240
 ctgttcagag tttgaagggt gggaatgggc tagaagagag tacatctcag ggtcctctga 300
 ttaacgaagc tgctgttcaa aaggtggaga agttcataaa tgacgcgact tcaaagggag 360

caaatgtcat gctaggtggt agaagacaca gcctggggat gtcattttat gaaccaactg 420
tagtaagga 429

<210> 17063
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-001-Q1-E1-D10

<400> 17063

gggaaactct ggttcggatc accggtggca tgaagtgaa ggctgaccgt gacgagtcgt 60
caccttacgc tgctatgctt gctgctcaag acgtcgcaca gcgctgcaag gagcttggca 120
ttactgcact gcacattaag cttcgcgccca ccggaggcaa caagaccaag acccctggac 180
ctggtgcca gtctgccctc agggcgcttg ctcgttccgg gatgaaaatc ggacgcattg 240
aggacgttac cccggtcccc actgacagca ctgcagaaa gggcggtagg aggggaagga 300
ggctgtangc gtctcgtctg cgtggcattt gccggctctt ggccggtggc cattatgaag 360
ctagccctct ctgggtggtg ttgctgttct gtgtttgtca agaccagctt taattttg 418

<210> 17064
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-D11

<400> 17064

cggacgcgtg ggccggcct tcccctcggg tcgtttcgtg cgcccgctgc cggccagacc 60
cagacccaga cctgcccac gcgcggctcc tccccctcct cctcgtcttc tgccccgtgg 120
ccgcgtttcg gggcaacgcc gtccccgacg tcccgtgtgt caccttccag gacgacctcc 180
tccggcttgc tcctatcgag ttctgcgccg gcccgcgtgt cggcgagatg gttgtcgagg 240
atgtggccgt tgactgcagc cctagtcgtc cagctgaact gcgccgcagg ctgcggttca 300
agcgcattgc ctgccttgtg cagacccagg tgcgcctgcg tcagtcacac gcgtcgcctg 360
cgctgtcgtt ggaagcactg ggaggctcat cag 393

<210> 17065
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-D4

<400> 17065

accacgcgtc cgtggaattc tattaagata ttatatgaaa gtcgaatttc ttccattctc 60
 atttgagaat gcgaatacaa ggaggtatct tgtgtttggg aaagtccgaa gaaaaaagga 120
 tttggaatct accttttctt ttgctttttc ccttataaaa ataactcaat caaaatccaa 180
 ttatctactc tacaagaatg aaatgcttgt tatgcctaata atacttagtt taacctgtat 240
 ctgtttttaat tctgttcttt gtccgactag ctttttcttc gccaaattac ccgaagctta 300
 tgccattttc aacccaatcg tggatgttat gcctgtcata cctgtactct tttttctatt 360
 agcgtttgtt tggcaagctg ctgtaagttt tcgatgaaat ctttactatt ctgcctggca 420
 aattg 425

<210> 17066
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-D5

<400> 17066

agagaggaga ggaagcagca agaggagccg aggaagaata tatccatcca cccacccaca 60
 caccagacac acatacctta ttctccgccc tttcttggcc tccggaatc tcctccccc 120
 agttgcaagc atgggcgggt tcagcctcag cggcgctaca ggtctcgcg cgtgccgcga 180
 ggaagaagac gaggagctgt tcgagacgtc gtcttcgatc tccggcgact ccgacgacga 240
 gggccaccag ctctccgatg gagagggggg cgcctatgat ttgtcatctg tgatggcaca 300
 gctccctgtc aagaaagggc tatccagata ctacgacggc aagtcccagt ccttcgcgtg 360
 catgtctgaa gtgcgatgcc tgaaagatct gcccaagaaa gagacgcctt acaagaagat 420
 caaga 425

<210> 17067
 <211> 426

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-001-Q1-E1-D6
 <400> 17067

tgttcagtgg agaattagcc cgtgctatgc ttattcagat tcaaaagctt aaactggacc 60
 ttgaatcggg actactggaa atggatcaga ttctaagggc aaatgctata aactttgctg 120
 ttcttgcagc gcttcctgct tttgggtctt cacttctgtt gcttgtgtta ctgcgagcat 180
 gggttcagcg tgaccatggt gctgagggaa gaggtaatat tgcacgatgt caacggaggc 240
 tgcttcttgt tgatgtagag agaaggctta tggagtttca acattacagg gataatggaa 300
 tggaggaaga ggcacgtgac aagtttggct tagtacttta cacgcttgat agactctgca 360
 aagctgttga gtcacacgca aaagaaacag gcgaatgggt aagcttgaga caagatattt 420
 ttgatc 426

<210> 17068
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-001-Q1-E1-D7
 <400> 17068

tctagatcgc gagcggcccc cctttttttt tttttttttt tagcaccata acacttagtt 60
 tatttttagag tcatgtagaa gagatacaat agccttatta caatgtgcca taaaggttta 120
 gtagcaagga gccattgttg gcgtgtgcat aaacacaaat attctcctcg ggtgactgat 180
 gacacaaaga cacattgttg acacataggc cccgtctggg ttattatccc gacacggcaa 240
 tttaaagagt ccagacggca gtagtttgca caatggccga tgcagaggag gtttacagca 300
 caaaggcctt gcggtagatg tcgaacttct ccgaggagga cagggttgggt tcctccacgc 360
 cgctgaagtt ggcgaccttg c 381

<210> 17069
 <211> 273
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-001-Q1-E1-D8

<400> 17069

tgtagatcgc gagcggcccc ctttttatte ttatTTTTTT tgcacgatg aactgagta 60
tatttcacag gcatgtggaa gagatcccc agccttacga cagggtgcc cagaggatta 120
gtagcagtgt cccaatgtcg gcgtgtgcag caacacacgt agtctctctg ggtgtcagag 180
tccacaacga gacattgctg acatataagc cccgtctggt ttatgatccc gacgcgggga 240
ttgactgcgt ccaggctgcc agtactttgc cgc 273

<210> 17070

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-D9

<400> 17070

cggacgcgtg gggccgcaag ctccatcttc ctccctgctg cagctcccga gcgccctgcc 60
ctttgctcca gcttgccgcg tgctctagcg tctgtgccgt ggagcccctg gcgcgggttc 120
ttctgcgccc ggccatcctc tctctccatc accatggagc ttcttttctc cagccgcgcc 180
ctgctcggtt ccatggccaa cgttcccaa gctcctccct ccagtccagc tgcggtgctc 240
cctgcgcgcc tgctcccgcg cgcgttctc tgctcgtcgc gccagcgag tctccatggt 300
caagcacgcg cggatctcct ctgagctcgc ccccggcctc tactccttcc agccggtcga 360
gtctcgactg cgctcggcct ccagctctgt tttcgcgcag ctgcgc 406

<210> 17071

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-E1

<400> 17071

accacgcgtc cgcggacgcg tgggcggcta ctcttccct ctccccctt ctccccctcc 60
gtctttcttc ccaggggca tccgtgtttt cactttttgc tccccacgt tgaaccttga 120
tcctcgtgct ccttttcttg attctttctc cgtaggatct cttgctagga gtagcctgcc 180
ccgtgtgcgc gctcgcacgg acatgcttgt ttccgcgtct tgaaaggcga gaaaaagtgg 240

agatggggcgc ttgcgcttcg gtacacaagg acccggggca cccaagaag cagtttcttg 300
 actctccac caaggcgaag gccgccaacg ggaaggggtg cggggggcgc ggtgttgctc 360
 cggttgggtga tggcttcggt gatctcaagt ccaaggtcga cgctgaggct gagcagctgc 420
 gggcaaagt 429

<210> 17072
 <211> 345
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-001-Q1-E1-E2
 <400> 17072

cggacgcgtg ggcggtgctc cccgtgcccgg tgtggctgct gagcagggcg tccccggaga 60
 agaagtggat cgcgctcatc aacgtgcccg tcatctcgta cgggttcgcc gggatgccgc 120
 cggccacgcc caccaacatc gccacctggc tggtagcggg caccatcttc aactacttcg 180
 tcttcaggta ccgcaagggg tggtagcaga agtacaacta cgtgctctcg gcggcgctcg 240
 acgccggcac cgccttcatt gaggtgctca tctttttcgc cctccagaac gcgcaccacg 300
 agctcaagtg ggtgggcacg gaggtggatc actgcccact cgctt 345

<210> 17073
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-001-Q1-E1-E4
 <400> 17073

caataaccac tgcaaggggtg aagttgttct ggtgttccag ccagtgttaa tctctccct 60
 tactgcagag ttaagttgtt cctgagctga gtgtcaacct cctgtgtggt gaccagggtc 120
 atccaagtgc ccacctcgcc gcggtcaagc aatcacaagc gattccccag ctgtacagtg 180
 catgtttcgt gttctcctta gaacacctag acgaggtggt atttgaagaa gtctactcca 240
 atgcctgctc ctcaagtgga tgaagccatc taactgggta ttggatagag ggatctagaa 300
 ccacttcact gcagcagaga acacctagac gacgtggtat ttgaagaagt ctactcgaat 360
 gcctgtcctt caagtggatg aagccatcta actgggtatt ggatagaggg atcta 415

<210> 17074

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-E5

<400> 17074

acggtcgcat acaaccacgg tcttaagctt cgtctgcacc aacgcatgca tagatcgatc 60
gaactcacgg gtcagggtga acaaaaaata cagtagctag gaataatcga cggatgagtt 120
cagagcgaga ggccggagtc gtcgtcctcg tcgagcgtgg aggtgtagac ggtgtagagg 180
gaccagatga ggccgaagac gccagcagg atccaccca gcaggttgtt gctgagcccc 240
aggctgagcc cggtgccctc cgtcgacatc cgtcgtcca ccagcgccag cgcgggagac 300
gtggtcaccg cgctgggtggc cacggccaga agcgacgacg atgcgccgtt gttgccgtcg 360
cgccgctggc tcggccgc 378

<210> 17075

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-E7

<400> 17075

cactcctcgc catcacatag aaccagtga agcagaagca gcgcaatggc gagcagcacc 60
atggccctct cctccacagc cttcgccggc aaggcagtga acgtgccgtc gtctctcttc 120
ggcgaggccc gcgtgacgat gcgcaagacg gcggcgaagg caaagccggc ggcgagctcc 180
ggcagcccgt ggtacggccc cgaccgcgtg ctctacctgg gcccgctgtc cggcgcgccc 240
ccgagctacc tgacgggcca gttcccggc gactacggct gggacaccgc ggggctgtcg 300
gcggacccgg atacgttcgc caagaaccgg gagctggagg tcatccacgc ccgctggggc 360
atgctgggag cggtgggctg 380

<210> 17076

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-E9

<400> 17076

gcctcacctc agatcacctc gccgactagg gctgtgtacc gccgtggatc gcgccgtccc 60
cgccatggac gtctcacact cgggatacctc agtcgccggc gaggtccga cgacaggaga 120
gcaccaggtg gggactacca tcgtcagggc ctgctaccag ggctgcgtcg tcctgcgcgc 180
cgaatccatg agcagactgg aatgtatgta gccaacctg cttcacacaa gattactcaa 240
ctggcagaga acgtgtgatt ctgtcactct ggatctgctg cggatacaca tctcatttcg 300
gattatgtac gctatttcct cgaccaacac acaatccatc ttggccaacc agctaccgt 359

<210> 17077

<211> 363

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-001-Q1-E1-F1

<400> 17077

gaaaatatca taagaatcca gaggcgactc caggtttgtc ggcatgctg cgagcgggag 60
gcangcggct cctcgccccg gggctccgtc ggctcggcct gggcacaggc gcctccggcg 120
aggcgggtcc tgccgcggcg gcggcggggg tgagggcgta ccacgagcgg gtggtggacc 180
actacaacaa cccgcggaac gtaggttcct tcgacaagga cgaccccaac gtctgcactg 240
ggttgggtctg cgcgccagcc tcgggcgacg tcatgaagct gcagatccgc gtcgacgaga 300
actccggcaa gatcgtcgac gcctgcttca agacgtttgg ctgcggctcc gccatagcgt 360
cct 363

<210> 17078

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-F10

<400> 17078

cccacgcgtc cgtctaaaga ctatgtctgg aagacactaa agagtggaaa ggttgctcct 60

gggtttggtc atggagttct gcgtaagacc gaccacggt attcatgtca aagggagttt 120
gccctgaagc atttgcccaa ggatccactt ttccaattgg tgtccaagtt gtatgaagtt 180
gtacctccta tcctcactga gctgggcaag gtcaagaacc catggccaaa tgttgatgct 240
cacagtggag ttttgctgaa ccactttgga ctatctgaag cacggtatta cactgtcttg 300
ttcgggtgtt caagaagcat ggggatagga tctcagctca tctgggaccg tgcccttggc 360
ctgccacttg agaggccgaa gagtgttacc atggagttgc tgg 403

<210> 17079

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-F12

<400> 17079

agctgacgga cgactgaacc accgacagac aacatggccg cctccgctc caccgtctcc 60
ggcctcgccg gcgcctccct ggccagccgc ccggcggttct ccaccagctt cacgcggggc 120
agccgggtgt cggcgaggaa cccctgatg agcaggaacc tggagaggaa tggcaggatc 180
acctgcatga cgtttccccg gaactggctg cggagggacc tgagcgatcat cggcttcggg 240
ctcatcggct ggatggggcc gtccagcgtc ccggccatca acggcaacag cctcacgggg 300
ctcttcttct ccagcategg ccaggagctg gccacttcc ccacgcccc gcccgtcacc 360
tcccagttct ggctgtggct aatgacgtgg cacctgggccc tgttcacgt gctca 415

<210> 17080

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-F2

<400> 17080

gtccccgtca acttccaacc ccagtgtgga agtgggcagc tatgtgaata ccaatgatgt 60
tttcaaggag cccaatgatg tcttcaagga gcctggcagc aataagcgtt tgaggtcagg 120
atgcaatgat gtgcatgtgc caacatctaa agcttctagg gaaaaaatga ggatgaacaa 180
gctgaatgac aggtttcttg aattggggtc tacattagaa ccagggaagc cagtaaaagc 240

tgacaaagct gctatcctaa gtgatgctac tcgcatgggtt attcagcttc gttcagaaac 300
acagcagctg aaggaaacta atggta 326

<210> 17081
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-F3

<400> 17081

cccacgcgtc cgtcaaaaag caattaacta aggaggagaa gtttgaaaag aggaagcaga 60
gacttgctgc aatcggagag gatcttttgg cgattgctgc tgatcaacca tttcgcttcc 120
ctgccacatt tacatttgtg gtcagagcat tctcagttct agatgggtatt gggaaaggcc 180
ttgatcctag gtttgatatt acagagattg ctaagccata tgccaaggaa ttgctaagat 240
ttaatgacgc tgggtgttgaa atagttgtga aggatgcaaa gaagagatgg gaaaggcagt 300
cccgtgcctt ttacaatttg ttccgccaac ccgatagagt tgaaaagctc gcacaaatta 360
ttgaacgttt ggagcaaggt gaactcaagc ttcgtgtcaa aacgctggga tcag 414

<210> 17082
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-F4

<400> 17082

ccttatcctt ctctctgccc gcatttcatt tcgttcggcg tccccacacg gccacaccgg 60
aaaaaagacc ccggcaagaa cctcgtcttc cggcgtctcc ggccaatacc catggaggcc 120
accgcagtgc cgagggtctt gttcctattc gggacatcgc cggcgccgta tcgtatgcgt 180
atgaactgct tgcgcgtagc tattggagga gatgtgaggc ggcagggggc cgtggcagtg 240
tgggcgaaga agaagagggg gagggggcgg gatagcgaga cggaggaacg ggtggacacg 300
cacagcttca cccccaagc cgggccgaag gtgccgggct gttccccgaa ggcgttctgc 360
tta 363

<210> 17083

<211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-001-Q1-E1-F6

 <400> 17083

 aatgatgatg gtctaattca cctaaaaggc ctcatacagc taaaaaacct ggagctttca 60
 gacactgaag ttggaagcaa tggacttcgt catctttctg gtctgcgtaa tttgcagagc 120
 atcaatctct ctttcacatt ggttactgac attggtttga agaagatctc tggcttgagt 180
 tcactgaagt ctcttaatct tgacaatcgc caaatcacag atactggttt agcgtctctt 240
 acaggtctca ctggattgac acacctcgac ctatttggag ctgcgataac tgattctggc 300
 atgagctgct tcagattttt caagaatatt caatccct 338

<210> 17084
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-001-Q1-E1-F8

 <400> 17084

 aggctggaga aggccaaaga gcactacctc actcgcctta aacgagaatg ggagcaggat 60
 gcggtgcag cggcgtcaaa ggaagctgct ctgaaagata atgcagagaa ccagaagccg 120
 aaactggata aggctgcttt ggagggttg aagattaaca tctacttccc aaagctgagg 180
 aaggtgaaag ctttgccact gaaaggcaca ggaaagcata aatacagttt cgcacatatt 240
 gaagttcctt cttatccaat tcatttctgt gactgtgaag agcactgtgg acctcctgag 300
 gaagctaata atgaatatgc ttctgttatc aatgctgctg catatgagaa ggaacgtaac 360
 attatgaatt ctgtgatgaa aaagcttttt gagaaagaaa atga 404

<210> 17085
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-001-Q1-E1-F9

 <400> 17085

acaggatcca gtggaccaga caatgaagta cccaaggggtg atgcaaaaac cataggggaag 60
aatacccttt ttgcaccacg agctctgggtt aaacctcttg gatggacaaa caaggatgag 120
aagaaaccag atgttgcagg ggagttgaaa tcaaagagg agttccgaaa tctgttacta 180
aagaagtgat atcagttggc aggtgtggat ctccatgcc caatccagt ccaagatttg 240
tggtgccttc atctctatgt tagaatgatg gacctgtagt agcagcttga actgggggatc 300
tacaaccgtt atgtcttacc ccgatgtaga catgaatatt tctttctgct agggagatta 360
tacaaaccat gccgaattgc ag 382

<210> 17086

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G10

<400> 17086

gagatcaaca gagcaatcct gaacctttct ctgcgccatg atctgcata tagtgcatac 60
ggagaaggaa atgaaagaag actgactggg aaacatgaga ctgcgagcat cggaacgttc 120
tcatgggggtg tggcaaaccg cggctgctct atccgtgtgg ggcgggatac cgaggcaaaa 180
gggaaagggtt acctggaaga ccgtcggccg gcatcaaaca tggaccgta cattgtgacg 240
gggctactgg ccgagaccac gatcctctgg cageccatccc tcgaggcgga ggctcttgcc 300
gccaagaagc tggcgctgaa ggtgtgaagc agctgaagga tggttcaggc accaatataa 360
accggtccgc gacaagattg atctttgtgt ccatggcctg ggtcttgca ctctctgct 419

<210> 17087

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G11

<400> 17087

actagttcta gatcggcgag cggccggagt gggagcgcg cgcgcccagc gtgcggggct 60
cgggtgcacgt gccgctgttc gtgggggacg acgacatggg ccccgtagc ctgctgaaga 120
agtgggtcca cttgggctac atcgggctct ggaccggcca ggccttcacc aagatgaacg 180

agcgcttcgt cgacgacgtc gccgcgcgcg tcgacggcag caaggacgcc aagcttctcg 240
 tcgcttgtgg cgaaggcctc aggtcggtga tcgcggtgag gatgctgcac gacgacgggt 300
 acaggaacct ggcgtggctc gccggcggtt tcagcaagtg cgcgacggc gatttcgcag 360
 atgtggaggg ggagagcaag ctgcagtacg ccaccatcgg gggggcgctc tacatc 416

<210> 17088

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G3

<400> 17088

ctagagttgc aacttactcg agcagttgcc ttaagtgacc catttgtgta tcatcaccag 60
 gcccgattaa tggaaagcat tcctattggg caggattctg ttgaatcggc atctgctcga 120
 gttttgatgg ccgtgctaga gttgcaactt actcgagggc acagtcgtca aaagtggcag 180
 cagttgtaca ccggaagtta tgcagcattt aagatgatgg aaatggccaa gaatagggct 240
 tgtaccacag cacaagaacg acttgaggaa acaaagggtc aagcagaaca gggtattgga 300
 ctaaagcatc aggtgataga acttcagacg caacaccaag ctgatcagaa tcgcattaag 360
 gcgcttgagc atcagctagc taatgctcat tctaaatcaa aagttctgag tcagcaacaa 420
 gaaga 425

<210> 17089

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G4

<400> 17089

tcgacgcacg cctccaggat agtcatgca acacactcag ctatccagca aaagagatcg 60
 agaggcacga gtcattggcca ccgtcagcgc cgccgtggtg accaccatcg ttgccgcgcg 120
 cgcgatcgcc agggccaatg ctctagggct gcctgcgctg agggcgagga gcgagagggt 180
 gcggtgcagc tacgccaacg acgcggcccc agtcagcacc aaggcgccac gcgcgtcgct 240
 gctcgcgcga gggggcgctg tgaccgcgtc agcggagccc gcgctggcgc tcgtggacca 300

gcgcatgtcc acggagggca ccgggctgag cctccggctc agcaacaccc tgcttgggtg 360
g 361

<210> 17090
<211> 107
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G5

<400> 17090

tcgctgggtcg acgcacgcct ctaagttgag tcgtgtcaca ataggtgatt gtcctactac 60
gatgcaggta caacagtttg cacaattatt cttcatctta gtctgct 107

<210> 17091
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G6

<400> 17091

ggctgaggtt gcagggtgcc tctgttccag aaggagcttt gtctctggcg cattggaatc 60
cagtgccgct tcagcggcgt gtatctgatt tggaggtggc aaatgccgat atggctcagc 120
agtactctga tcttgaagaa aaatattctc aaggtcagac tgaactggcc cggcgggtgct 180
ctgatcttga agaaaaatat tctcaaggtc agactgaact ggcccgggtt tctgcttctc 240
tgaacgatgt taacacgctg aactctactc tccatgctca gctcaactct gaaaaggaag 300
aaaaacgtgc ccttgctact tctcgtgaca accttgataa gctataccgt gacgccagca 360
actcattgac catcttggag aggagtcacg gcttcaccag ggaggagtta gataatcatc 420
g 421

<210> 17092
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G7

<400> 17092

aaatcgaggc tccgcgaaac acggcggtga ggatgctgtt tagcacatgg acg 53

<210> 17093

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G8

<400> 17093

cgtcgagctt ccaggtccta aaatgatdgc aacaaatgtg tggatgaatgt atgttcccgt 60

gcatggcac gtgacagagc cagttgcggg gttgtctgct aaggtaccat gtatgcgggt 120

ggcctgcata ggtatctgta tctcccgata atctccgcct gtggcacgat taactggaag 180

cccagaacgc atgtctttat ctgcgtgctg ctgggaaccc tgatcccatg gtgcggtgga 240

cgctccatc 249

<210> 17094

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G9

<400> 17094

ccggcatgga caccatcgtc tctctctcgc ctcagatgct tcgccagcgc cagggccacc 60

agtctactgc atcatcatca tcatcagctt gggctattac cacagctagg atcggtcgcc 120

acctgtctac tgcacatcc tgttcagcc cgcggtgct catcaagcag agggcgacgg 180

cggcatcggc accggcaccg gcaccggcac cggcacagaa agagaaagag gtcgtcttcg 240

tggctggcgc caccggcaga gttgggtccc gggccgtaag ggagctcatg aagcttggct 300

tccgtgtgcg cgctgccgtc aggaacgcac agagggccac gtcgctggtg cagaaagaga 360

aagagcagca gctgcttgag cttgtggagt gtga 394

<210> 17095

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H10

<400> 17095

actcgtgggt cgacacaagc ctctagattg agtcgtagga ggcgttcgag ctcgggcgagg 60
cgccggtgta ctggaagacc agcaacggcc tgccgtcttc cccgggagag gggctgaccc 120
tggtctacaa cccggcgagg agcaagatgg ccccgaaacga cgtgttcggc gtggcggttca 180
acggcggtt caaccagccc atcatgtgag gggcgagacc gaggcagatg acgctgcagg 240
tccgcgaggaa agccgacccg cccatctaca ccatcaggat acgctgccc cagcacgcca 300
caagcttgat cttctccttc accaacgggg cagagtggga cggccgtac accctcaagt 360
tcagggtccc gaagccatgg cagaagaagc cgctgagctt cttcaacgag ggctggccc 420
acgagctcaa cag 433

<210> 17096

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H11

<400> 17096

cgagatcact tcgccgccgc cgcttttcgag atctccgggt ggagcaagcg agcaaaggca 60
gcagccatgt cgctccgagt gctgaaccct aacgccgagg tgctcaacaa gtcggcagcg 120
ctgcacatga acatcaacgc cgccaagggc ctccaggagc tgctcaagac caacctcggc 180
ccaaggggca ccatcaagat gcttgtgggt ggagctgggt acctgaagct gacgaaggat 240
gggaacaccc tcttgaagga aatgcaaatt cagaacccaa ctgcaatcat gattgagagg 300
acggctgtgg cacaggatga cacaagtggg gatgggacaa cctccactgt gctatttatc 360
ggggagccta agtaacagtc tgagcgggtg atcgaatgaa ggactcatcc aagat 415

<210> 17097

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H2

<400> 17097

ctcgcgtatc gacgcagcc tctaggatga gtcgaacgac tggtaggtgt gtgtgtgtgt 60

cgtgcgtgcc caccggccat atcccgggtgc ggcagcacgt gctattgtta cgtgttgtag 120
tgccgccagc gtacgtgtct gtgtgtctcg atcatatctg tacgttttta gatttagaag 180
aaaaaaaaaa ggcattgtccg tgtctgt 207

<210> 17098

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H3

<400> 17098

acaagactct ataatgagtc gtagtacatt gattacgttg gttcctgggg tctgcaatc 60
atcggccatg cagatgataa gggttaatgct gcattgattg aaactctgaa gaaaggaact 120
agctttgggtg ctccatgttt gctggagAAC gtattggctg agatgggtcat ctctgccgtg 180
ccaagtatcg aaatgggccg ctttgtcaac tcagggacag aagcctgcat gggagcgtc 240
cgcctcgtgc gcgcattcac cgggcgggag aagatcatca agttcgaagg ctgctaccat 300
ggccatgccg attccttctt tgtcaaagcc ggcagtgggtg ttgccaccct tggcctccct 360
gactcccctg gcgtcccaa gggggccacc tacgagactt tgaccgcacc ctacaatgat 420

<210> 17099

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-001-Q1-E1-H4

<400> 17099

acgcctccag tgtgcgacca cgtcatcaat cggggccact ggaccgagga catgcgcgac 60
gacgcgctgg aacctgccga cctcttcagc cgccacctca cggtcgtcga cgtcggcggc 120
ggcacgggggt tcaccacgct cggcatcgtc aagcacgtca acccgagaa cgtcacgctg 180
ctcgaccagt ccccgacca gctcgacaag gcccggcaga aggaggccct caatggggtc 240
accatcatgg agggcgacgc cgaggacctc ccgttccca ccgactcctt cgaccgatac 300
atctccgccg gcagcatcga gtactggcca gaccacagc gggggatcaa ggaagcctac 360
naggctctga gatttggtgg gctagcttgt gtgatcggcc cggctctacc gaccttctgg 420

ct

422

<210> 17100

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H6

<400> 17100

agcagctcag agcacgcgca gccgcctcgc ctgcgctgga gctcacgcag ccgcctcgcc 60
tggagctcgc gcagccgcct ctatcctcgc ctggagctcg cgctagggtt cctctcgag 120
ccgccgctgt tgaggtgcta cttgcaaaag,cgtgtactga acagctcaa aggccctgct 180
atatgtgcac tgcgtgctca gcctgataag,agagagtatg caatagagat gaagaacagt 240
gtggaaagca cagaaaatct tttcattaga gaagcaatgg ctacagaggt ttttaattgga 300
aaaaatgaca ccattgaggg tgtttgact ttcttcagca tggactttat gcaccatctg 360
ttgtacttag caccagaaca ttcattgagt tttctggggg caagctgct 409

<210> 17101

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H7

<400> 17101

gtagtatgac agaatcatgt ggcacttgct gcattgattg aactgggttca tatctgttgg 60
ggctcttgggg cttgatgttt gcttgatata gtgttgccgcg tttatgggtca ttgcttacct 120
ttcaatgttg gatttatggg ctgcgtt 147

<210> 17102

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H8

<400> 17102

cctccgcttc catcggttc gacgacttca cctatggaat ctgtcgacaa tccacgacga 60

cgaggcaaac tgctttggac gcaacgtcaa aggggccac gctcgcaggg cgctcgaggct 120
 ttacatgccc cagatccatc aagaacctca cccacaaaa attttcaactg ctcggtgact 180
 ctccg 185

<210> 17103

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H9

<400> 17103

ctcgcgggtc gacacaagcc tctaaattaa gtacgaagga tgacacacct gagcctcttt 60
 gccaggatcat gcttcgtgtt ggtgaccttg agcggttctat caagttttat gagaaggccc 120
 taaggatgaa gctcctaagg aagaaggatg tacctgatta caagtatacc attgccatgt 180
 tgggctatgc tgatgaggac aagacaactg ttctggagct gacgtacaac tatggagtca 240
 cagaatacag caagggaat gcatatgctc acgttgccat tggcaccaat gatgtgtaca 300
 agagcgccga cgcggttgat ctgacgacca aagaactacg tggcaagatt ttgcggcaac 360
 catggcctct acctgggatc aactaaga tcgcctcttt tgttgatcca ga 412

<210> 17104

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-A3

<400> 17104

cccacgcctc cgtttatgaa tgatacatc ctctccaaact ttcttacgga agctgggatt 60
 agcatcaaga gacaccagac ccgtataagt gcaagagctc agcgtgagat tgcaagagag 120
 atcaggaccg cacgtgcgtt taggttaatg ccttttacia caatgggtat aagcacactc 180
 atttttggca aaagtgcgg 199

<210> 17105

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-A5

<400> 17105

tcccggggcc acatacgcgt ccgaccacgc gtccgcccac gcgtccgcac atacacaggt 60
cacaccgtca cacgcacact gcaccgtgtg cgcgggtact ccccgccatg gccaccacct 120
ccgtcgccgc ctctctcgc cagcccccac tgtcccgccc ccgcccgggg aactccagcg 180
ccacctccag aacctcgatc cggggctgcc tcttgcccat ccgatgctcg gctgcctcgt 240
cgtcgcaacc gccggcaagc ggcggtgagg agggagagtc cgggcgcggg cggctgtcga 300
agcagtcttc ctgagaggat agagatgtgg agggggacga ctacctctac cgcctcggga 360
agggcgctga gaacttggac atcaccgctt gcacacggtc c 401

<210> 17106

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-A6

<400> 17106

cacacgcgtc cgcacatcca tccccttccc ttcccttccc tcgtgcgccg ccggctctcc 60
agcgcgccgt ctctgccag atccaggaca tatgcccgc tatgatgatc gctatggcgg 120
cacgcgcttg tatgttgga gattggcccc ccgtactcgt tctcgtgatt tagaatatct 180
ctgcggcaga tatggaagaa tacgagaagt ggagttgaag cgcgactatg catttactga 240
gttcagtga catcgtgatg ccgatgaagc tcggtaccaa ctagatggca cggatgtcga 300
tggaagtcgc attgttggtg agtttgctac aggggtccca cgtgggtccat gtggctcacg 360
tgaatatatg ggaagaggac ctccaccagg cacaggctcg tgtttcaag 409

<210> 17107

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B1

<400> 17107

ccaataacca ctgcaagggt gaagttgttc tagtgttcca gccagtgtta atcctctccc 60

ttactgcaga gttaagttgt tcctgagctg agtgtcaacc tcctgtgtgg tgaccagggg 120
catccaagtg cccacctcgc cgcgggtcaag caatcacaag cgattcccca gctgtacagt 180
gcatgtttcg tgttctcctt agaacaccta aacgaggtgg tatttgaaga agtctactcc 240
aatgcctgct cctcaagtgg atgaagccat ctaactgggt attggataga gggatctaga 300
accacttcac tgcaacaaag gatataactt tgtgctgctg tgatgggtgtt aagtgccggg 360
gggctcggcc ttcttatata agtatacccc gtctttatct tccta 405

<210> 17108

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B10

<400> 17108

acactcagca gcgatcgcag caccgcggcg agataatgag cagcctgtcc tccggcatct 60
ctgcctcgcc atctgcagcg cccagcaccg ctcggcgccg ccatgacgca gcgccgcagc 120
agctgagggg gaaggcggcg gcgcggccac agctgctgca cgccggccgc cggcgttcga 180
gtgtcgggag gaggccgggc ggcggcgcgg tgggtggtgag ggccgggcct gggccgctgt 240
cggagatcga gccggacctg taggaggacg ccatcgacgt gtaccgcacc aacggcatca 300
gcccggagga cttcgagtac gggaagtatg acggacacca cacctatt 348

<210> 17109

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B11

<400> 17109

cggacgcgtg ggcgaggtga cagaactgcc gttctttgca acgaaagtga ggcttgggcg 60
tgggtggagcc gaggagatcc tgccgcttgg ccctttgaat gatttcgaga gagctggtct 120
ggaagcggca aagaaggaac tgggcgagag cattcagaag ggcacgctt tcatgagcaa 180
gtgaagtggg acggagggag atcgtccctg agtcagattc cggaccatac gtagtaacgt 240
agatgtaagg gtgttgtgat atagtgtcc tacctatact tgtaaagccg cggtaaaaag 300

aaggctaatt accctttagc aactgtgacc at

332

<210> 17110

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B3

<400> 17110

tatTTTTTTta ttttttTcatt tttaagtgtat tcaacactat tatagggttaa cagaaccaag 60
aaacaattgg acatgtaaca gtagatggta cctcttagcc aaatcagttg caaccagata 120
agtgtatttt tgtcgtgaat gtcataaatt atgcaaattc acttggcgaa agagtgtcat 180
actacaattt cacaagaaca acccctaaaa ctcaacacat aataacaact acagagcatt 240
tcgcttttgag taaacaagga aaattctcgt ggtggatatg atatatccag tttactcaat 300
gattttgttg atgacaccag caccaacagt cttaccaccc tcacggatag caaacctcat 360
accctgctca caagcaacag gctggatg 388

<210> 17111

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-002-Q1-E1-B4

<400> 17111

cggacgcgtg ggaaacggac ataccaagaa gttgcaaagc tagacttccc tgcaaaatag 60
tgtaatcttt gaaggtanca gtgaggatac aagtgtcaaa ggcttctgga aattgtgagg 120
tactttggta tgccaatact cttgggacta gttggcccaa atttctcgag tagcatctag 180
acatatacca aatatgtatg tccatgtgta acttcttaac atagatgata gcgactctaa 240
ctataagagt aactatggct gcggacttcc ccaggatctt gttttatcat ccttttagac 299

<210> 17112

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B5

<400> 17112

aacacgcgtc cgatgtgggg aacgaccatg gaaagcgaga catcagcaag caaccagaac 60
cagcaggcga ggcggatcaa atatgcagag catggagaga gatatagcta gagcctagag 120
cgagcaccag caaaccaaac aagcagacca cttctccac ccggccggcc ttcgtcttcc 180
tccgatcccc aggccccagc cactccccgt acaagccaaa gagaccagta ggtaggcagg 240
cagttcatcg tcgatcgagc aagatgtcgg actggggccc cgtggtgatc gggctggtgc 300
tgttcgtgct gctctcgccg gggctgctcg tccagctccc cggccgccac cacttggtgg 360
agttcggcaa cctgaagacc agcgccgtct ccatcgctgt cc 402

<210> 17113

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B6

<400> 17113

aaagtcaact ttcacgtcta tgattgacaa gtctgaaaag attcatacat taagtgatag 60
aagttgtgtg ctaaacaact gatgcatttt cttcattgga aaattaatta ccattccttg 120
ttacctgatt tattcaaaca agttttctga tgctt 155

<210> 17114

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B7

<400> 17114

ggagcttctc ccgcggcggc ggcgtccatc acggtaggtc gttgcgtgcg ttcgtcagtc 60
agaatttcag aaccgagttc aaacgaaatg accgagggat ggctgtgaga ttaagatccc 120
tcgatggcga cgcgggcgcg ggagaagctc cgagagcggc tgttgaagga 170

<210> 17115

<211> 105

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B8

<400> 17115

ggaaatggaa gctctgctgt actttaagaa acttgatgaa acctttgtat aactcaactg 60
tacctctatc tatcccttgt gtgtatttga gaacgatttc agagc 105

<210> 17116

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B9

<400> 17116

cccacgcgtc cgcccacgcg tccgcccacg cgtccgttgg tcttctctct cggatcgcgg 60
ttgggggggtt gcggaatggg agcaaaggcg gaggagtgtg aggtgccgcc gctggctgcg 120
aacgcggagg aggcagcttc caccaatcag tgcaccctca tcttcaaagg ctgttccaac 180
agcatggaaa aagtctacgc catcagcagt cctagtaaga aaagaaaatc acagtatgag 240
ctgagtgatc caaagttgct accacttaaa tgcaagtttc gcaaacgggt atattgccag 300
gatgatgagt ctgcaaccac agaaagttta ggatatgatg gtagtttcat gaacaagacc 360
tctgggacgg acatggtcag cataacctga agaattggac tctttgtgag aacac 415

<210> 17117

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C1

<400> 17117

cacacgcgta cgcatctcta aagctagcaa agtccatatg gttgctgcac aggttggcgt 60
actccttcga cccaaaggca aaggtgtttc aagtgaaaaa ggggagtga ttttcggata 120
tccacatgga gagcgtcgtg aagaacatca tcctacaaga aggtgcggag aggccaaaag 180
tcggcctgat ggtgatgcct ggtttcctga tcgggaccag cgtcatacag tcccgtgtgt 240
acctttcaga tgccaagtgt gctgactgac tgaagattgc acaaggagct tgaggggggtg 300

cctttgctcc ttgggagagc taccagcagc ataagtttat ggtggactgt tgtcctgtat 360
gtaatgcgtg agacctgttg cttcaatgcc gtgccacgtg 400

<210> 17118
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C10

<400> 17118

aaattgcgct gctccataat tacttgtgct ctaagctttg atccaaatcc acacacattg 60
atctaaaggc caggttgcag aatggagaga aactgatca ccttaacct ctgcttgagt 120
gcacacgctt caagatcgtc ccggagggtt cactacatcc ctcttccgc ctctgctgct 180
gcacacaact ccagctacag gaagaagagt gccccgtctc tgccgccgtc ggccgccgca 240
tctgccactg ttgtcaccgc cctccgtcc actgacaatg tccagtccac tgctccgaaa 300
cagaccgggc gacaggagct ggaagatctc gtggccgccca agaccagcac ttcaagaact 360
gcacgtgcgc cgagccaggc tcgggctcgg gctcgggctg agcctcgccg ccggcctgcc 420
ccggc 425

<210> 17119
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C11

<400> 17119

ccgacagcgc gactgtcgtg caggccaccg ccgaggatgg tgatgacgac acctgtccga 60
gcagggatct gcttgtcgac gacattggtg ggctcatcag ctggagcagg agtccggcgg 120
caccgcctc agcggctgcg gccacgtgca gcttccgggc gtcgccggcg ttgtccgtgc 180
agcaggacga gatcacggac gctgccatgc tgctgatgac gctgtcctgc gggcttgtcc 240
ggagctgata gcctgatcca cgatctgcta cctctacgaa ggacgaccca gcgcaccgta 300
ggcttttccc agctagcagc tagcttgtgc ccttgactgt tagctagcgt tactgttact 360
gctgttacca tcgtcgtcta acgtaatacc tgtagtgctt ttgttt 406

<210> 17120
<211> 103
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C2

<400> 17120

aagtgtgat ccgtgatgc caatgtaaat ataagtgtta ggtaatgcaa atattagcat 60
gacagtgcatt attcttgtaa atgggaattt accatgttat tgg 103

<210> 17121
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C3

<400> 17121

gtgagtgcaa gtgtggatcc tgtgcaacga ctgcagcgcg acctcgagcg tgcggttcca 60
cgtgctgggg cacaagtgcc ccgctgcag ctctacaac acccgggaga cgacggctgc 120
gtgccccagg atctgatgcg aaccacaggg catgtcaca aatgccaggg agatgccgtc 180
caacgatcat ctgtctgcag gacgttgctg cgcttaaggt taaacgctag cgcgagacca 240
ggcctggtag tccagtcctg agtttggggc tggagcattt gtaacgttcc ggtaaaatgt 300
gatgcgtcca tgagtgtgt ccaggcagtg agcacacctg tggctccggg ccggctcaag 360
gtccctaagc acgctgcaag attaggcggg ctactcaggt tta 403

<210> 17122
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C4

<400> 17122

cggacgcgtg gggcacaaga tatggaagta ctttatgtgg aaacaaacac tttcagacta 60
gcatcgaca tttactgggc attatgggcc cttattcagg caaaggatc cccaattgac 120
tttgactatc ttggatactt cttcttgcgg tatggtgagt acaagaaaca aaggagatcc 180

tgcttctcct tggcacaaaag ctttctctcc gagctaaaaa atggctagag cctgagaatc 240
 tgttcacgag tttatactgg tgtacgcatg ctccgagcgg gtacgcgttg tgatcatcgg 300
 ctgctacca gaaactctat tgtagcgggt gtagcagatc ttcattgttg tatctgatgt 360
 taggttcgtc atttgctaag gactatcttg ggtactctac tattgagctt aatccat 417

<210> 17123

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C5

<400> 17123

aacagagaga ttactacgat ccaacagttc tagagcaaga gagaggaaga cacaccgcag 60
 agtttagcagg ctaataactt gcaggagcag caggaatggc ggcgacgcgt cgcctctctt 120
 gctttctcct cgccgtgctt ctggcaggag tggccgctgc caccgccttc gacgaagcgg 180
 ctgctgccgg cttcggggctt ggccacggcg cgcgtttcgc gcgcaagcat ggacgtgctg 240
 ccgctgagat gccccagccg gagccacaac ctaaaactaa gccggagccc catatgcagc 300
 cactgcccc gccagaacct aaaccgaaac ctatgccaca tccagagcca aagcctgaac 360
 ctcaaccaa gcccaaccct gaacctcaac caatgcccc 400

<210> 17124

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C6

<400> 17124

atcacggcgc cggcggcgga cccaacgcc ggcgaggtgt actacaggct gatgtcgcg 60
 ttcattgtga accagagccg gtacacgctg gaccggctgc tggggaagat gtcgtgcccg 120
 ctgctgctgc tgtggggcga cctggaccgg tgggtcggcc cggccaaggc cgcgcggatc 180
 caggagttct acgccgacac cgccgtcgtg cacctgcagg ccggccactg cccgcacgac 240
 gaggcgccgg agcaggccaa ccgcgcgctg ctcgagtggc tcgcgccctt cgacgcccc 300
 gctaagtcgg ccgagcccag cctacagacc gtctgatgga tcgagcgcaa ggggcttagc 360

gtatgctagt caaagaatac aatttggggg cctat

395

<210> 17125

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C7

<400> 17125

aaaatcgtca ttttgctgat tagatactta aatatgatgg atttgccaac tttctttatc 60
cttgtgatga aaacggctga accaccagca gccttgccac ttgtgacatt aacaagtaac 120
ttgcactacc tgacttgtga ctagccatat catatctgat ttcttaagct catcatgttt 180
acacatgttt tcttgtatat actagttttg tcatttgatt ctagtaagaa gtgattttct 240
aaagctgttg aagtatcata agcatataat tatgatgagt ttgaagtgat attttatttt 300
catgtatctc atttttgcat aaacatttat gtggtattat ccaggttcaa gattgaagca 360
agatacaaga gcatggcaga actaagggtga tgtttcttgt tgtagactcc t 411

<210> 17126

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C8

<400> 17126

cagacgcgtg ggcggacgcg tgggttgctg gtggtgcaac atatactatg gaatcgggaa 60
ctgcctcaca gagagttgat gttaatgtta tgtatgaatc agaagattca aaccgacaga 120
aaggcaacat taggtccatg acactagtgt gaaccagtgg accaaaaata atttcttctg 180
tcagtgcgga agaaagcact actactccag cagatatctc tgaaacagag aatgtatcct 240
ctgatttgcc tcccagtagt ttaaggaaac acaagatttc aaaacatgga cctaggtaca 300
gggagcattc tcctggcaaa aggcagaagg ttttcacttc tgacatttct tttgaaggca 360
atataatgaa taaactttcc attccggaga ttcgtgacac a 401

<210> 17127

<211> 427

<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB84-002-Q1-E1-C9
 <400> 17127

cccagagata ctgatttgaa ttgtataggc gactggggtg tcgagtcagt tgtcaagaag 60
 aagcttaacg tccttagtgt ccatttgaca agctcaaagt cattggtcgg tatcacaggg 120
 gttatatcag agattcatca ggaaaggaag ggccgagatg tatatatact gggttccgca 180
 aatgttggaa aatctgcatt tatcagtgcg atgctaagaa caatggcgta caaggacccg 240
 gtggcagcgg cagctcaaaa atacaagcca atacagtctg ctgttcctgg aacaaccctt 300
 gggcctattc aaattgaagc atttttaagc ggagggaaat tgtatgatac acctggagtc 360
 caccttcacc atangcaagc agcagttatc catgctgatg atctgccttc tcttggcaca 420
 caaagtc 427

<210> 17128
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-002-Q1-E1-D10
 <400> 17128

cccacgcgtc cgaagacgcg tgggcaacct taatctcttc tctatcatta cagtgatgtc 60
 atttttcctt ttggcccctg ttaccttctt tacagaaggt gtcaaaatta ctctacatt 120
 tttgcaatct gctgggtctga atgtaaacca agtccttaca aggtgtcttt tcgctggact 180
 gtgtttccat gcataccaac aggtgtctta catgattttg gcgatgggtg ctctgtcac 240
 tcattctgtg ggcaactgtg ttaaactgtg tgtggtcatt gtaacatcag tgctgttctt 300
 caggacacct gtttctccta tcaactctct cgggtactgcg attgcacgtg ccggagtctt 360
 c 361

<210> 17129
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-002-Q1-E1-D11

<400> 17129

cacacgcgtc cgggcaaata tgtcatggaa gatctacata agattggtgg gacaccggca 60
gtcattcatt atcttctgga gcaaggtctt cttgatgggtg attgcatgac tggtactgca 120
aaaactctag ctgagaatgc caaaattttc cctcctttgt ctgaagggca gcaaataatt 180
cgaccacttg acaatcctat caaaccaact ggccatattc aaatacttta tggcaatctt 240
gcaccagaag gttctgtagc aaaaataact ggcaaagagg gactatactt ctcaggtcct 300
gcattagttt ttgaggggtga agagtccatg attacagcta tctcagaaaa cccagcaaatt 360
ttcaaggga 369

<210> 17130

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-D4

<400> 17130

cacgctcgtc ctctcctct cctcctggac agcagagcac agcacaacac accgagaaaag 60
aacaagcagc cgccaccgga gtcggaacc accatcagca gcagcacacc cggtaaacct 120
tccacacgcg cacacacaca cacacatggc gtcgcagcag aggcaacagc aggcgggagc 180
ggcggcgggc tctctcgccg tgggcttcga ggactacctg ccggtgatgg cggagcggct 240
gggcgaggac gggctgatgc gggagctggc gagcgggttc cggctgctga tggacccggc 300
gcgcgggctc atcaccttcg acagcctccg gcgcaacgcg ccgctgctgg gcctgggcgg 360
catgtcggac gccgacctcc gcgggatgct cg 392

<210> 17131

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-D5

<400> 17131

tattgaccct gaccggtgta cttgttactt gtttctattg taagccatct attgtgatct 60
tgtcatgagg ttctagtatt ttcgcaacgg aaaaagagt tgtagagtac tacctagatt 120

cgaaaggtct tgatgtttgc caaattgatg gtagtagtgt taaatcggaa tacaggagga 180
ggcaagtcaa atgcagttgt ttgtgacagt atgttactat ttactttac aatatcttca 240
tgagaaaaag atgaaccctg ttgggtgta tacttttaggc ttttaatgaa tgctcatatt 300
gttactttca tacatgtttg cgtgaatggg aatttggcat gtgatcggat aacatgtact 360
cagttgcatc ttaactgcaa attgtttaag gcacatttta gattgcaagt tctg 414

<210> 17132

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-D7

<400> 17132

aaacacacat ccagttgttg aatgggtatac ttaagttaaa ataaaaaaaa aatcacaaaa 60
tcaaaaaaaaa aaatacaacc acaaccaaaa acataaataa aataaatcaa caaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaagggcccc cccctaaaaa attccaacct tactttacct 180
tcaattcaaa t 191

<210> 17133

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-D9

<400> 17133

caatggtggc gctgctccag ttgctgcttc cgccccagct gggggtgctg cagctgctgc 60
tgccccctgct gcagaggaga agaaggaaga gcccaaggag gagtctgatg acgacatggg 120
cttcagcctg ttcgactgag accctcgcta ccagccatt agcaaattcg cttatgctgt 180
ccaagactta tcttacgtta tgtctgtagg cttttgttat tacaagtact caagttttga 240
gtttttgaga tgtggctatg acaatgtgat gaagaaccct aaaccatcgt attagagtga 300
aacttgtttc tatatagagt tccaagtttc ttgaacctca aacttgctct ggctgatgct 360
ctgatgtttt cagtcggtgc cttttaatcg aagtcaaccg attttcgaat tgtttgctg 419

<210> 17134
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-E1

<400> 17134

cagggcggtca tccctattca catgcagttc tctgacgacg cagaagaaac tttctccaga 60
gcaattagca gcttgctgaa agcacaatat gtgaagaagg gagactacat cactcttggt 120
cagagcggag tgacttcaat ctggagagag gaatccactc accacatcca agtgaggaaa 180
gttcaggtct gatgtgccgg tgggaattgg tegtctgaga aattttgata gcgccgcctg 240
atgtgtttatc atcattatat gtgtaatttt actgttttac cagcagattt ctacgtcgag 300
ttatatgttg tgtcgaattc acgtgtaggc tctgaatctt gaatgtgttc gttcattttc 360
ggctgtttca cactgaagtg gttaaagctc 390

<210> 17135
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-E10

<400> 17135

gttaggatgt aatgggtctag ccatgccagt ggaagttgtg cagttctgct ggaagtacaa 60
ccttgtaaga ttgcaggaac tgtttaagga ggaaggagtc gaggcaaagc taaggtttga 120
aggcgacaag ccctatgtta ctgacaactc aaactacatc gtcgatttat acttcaagac 180
gccaatcaag gatgcgttgg cagcaggaca ggaaattgca gctctggaag gagttgttga 240
ccatggggttg ttcttgaaca tggcgagttc agtgatcatt gctggaacgg acggtgtcag 300
tgtcaaaacg aagtgagttt ttgagttgct ttgttgtttg tgttgagttt tacaatttaa 360
tgtacaagct attggggtaa aagcagctga taagatgcct caataaacgt gttcccc 417

<210> 17136
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-E11

<400> 17136

gaagacactc ccactagtta gttatgtgca gggccatcct gaaatagtta gccaaacttg 60
cgatcttatt gggattactt ctatcatgga ggttttgatt cgcttaatcg gtgcagatga 120
aactatgtat tcaagctatg cagattctat gcaatgggta gatgacatac aagtccttga 180
gatgattgtt gacaagttca gcacatcaga ttctcttgag gttcatgcaa atgctgctga 240
aatcctttgt gcagtaacta gatatgcccc tccaacactt gctgcaaaga ttctgagtc 300
aagctttgtg gggagattag ttcaacatgc ttttgaagat tcaaggccaa aatccgtgct 360
ggtcactca 370

<210> 17137

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-E5

<400> 17137

aacctccgag ctctccttct atcagcgaaa ggtgttccgc gtcgctgagc acgctgggg 60
cacgttcgcc agcctgccga cgtcgcgtcc tctcgcgtt cctctgcaat gagtgcac 120
accactcctt catctacgag acgccgtcc ccgtctccag gtcgctgac aagctgcagg 180
cgtggctaga cccggtgaac ttgctgtcgg gaaagtccag ctactgtggt ttctgtggcg 240
agcctctgca gttcgtctc caggtgtttt ctttgtgtgc aatgaagttg ccacagtcga 300
ctgcttattg tttggatct gacttggcca cagttaggct tgggtgtgtt tagatttatg 360
caccaactga agataatgta gcagccttc accgaacgcg gttc 404

<210> 17138

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-E6

<400> 17138

tatttttttt ttccaatta aagttggatt tccttcctac gctgcgttcc acattgttca 60
agacaatgat tatatgagca atgtgcattc taaaagaatc ctgaactaaa aacgggtcag 120

gacatctctc tcaggtctgt ggccatcagg atcaggctgc atccggtagc cgccgtcgcc 180
gtcattctgg tcgttctgtt cgttcatatc aggaagcgaa tcattaactgg cagccccag 240
cttttccttt aggggaagcgt tctgtgaaag taggtgttcg ttctcatttc tgatccgctc 300
gagctcggcg ctatgcgaag aattatccga cctcatagcc tcagcacgtt 350

<210> 17139

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-E7

<400> 17139

tggagaaaat gagtggagga ggtgggagca gcaagaatgg cgtgctccac caatctctgc 60
ttctcggcgt tgattcctcc tcttcagcc tcttcttctt ctggctctc ccccttctc 120
acgatgaagc gtgtgtctc tgttccgtcg ttgtccaggt ggacaatccg atacaagcaa 180
ttgggacatg cattatatca gagaagccac gttctggcct ttgctagtgc agatgcatca 240
caaggcaaaa gaagctcagg tgagaatgtt gtgatggttg atccactgga agctaagcgt 300
ctagctgcta aacaaatgca agaaattagg gccaaagaaa agctgaaggt gcattgctgc 360
tgtattggag tgtatcattc cttagattaa atcaatctta tatgctaaag gaagaaaa 418

<210> 17140

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-002-Q1-E1-F4

<400> 17140

acgcaagcca ctccgaggcc aagtctacgg tttgggaatc tgtangaggg gagaggggag 60
cgcgctcagg gtcacggagg cgaagatgat cgacgtggtg ctgaacgacc gcctggggaa 120
gaaggtgcgg gtgaagtgca acgaggacga caccatcggc gacctcaaga agctggtggc 180
ggcgcagacg gggacgcgcc ccgagaagat ccgcatccag aagtgggtaca acatctacaa 240
cgaccacatc acgctcaagg actacgagat ccacgacggg atggggctcc gagctctact 300

acaactacgc gccctgacnc caaccgtgcc ctgatgtaag gttaatccga attctgaagt 360
catgggtgcg cttccagtcg cagcgtcttt agctaacaag ctcgcataca tata 414

<210> 17141
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-F5

<400> 17141

ggggcgacac acgcctctgt ttttcatgtg cagagcagag gaattacatt tatacacggt 60
gctgatcacc gctggcgtga tctgcaacaa ggatcacacc acctacatac catgcagcta 120
gagaggagga tcggccggag ctatgtatac gcattcttga tgatatctac ttgaagaagt 180
aggggaggtc gagcacgtag aggagaaagt atgccagag cagccggag atgccgccga 240
agaagaatcc cccggtgaac ttggcccagc cgtcggacgt ctgcagcttg tcggcctcct 300
tcttctgcc ggtgagcgtg agcgagggcg cctgggacgg gtccccctcg ttgaaggagg 360
cgacgccgta catggtgagg cagacgctga ggatggcgac gag 403

<210> 17142
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-F6

<400> 17142

agcatctttt cctaactctc cccaacaacc ctaccggtt cctggcctcc gcctccgtcc 60
gggtcgcta tcttccccgg tggcctctcc gcgcgccga cggggagcgg gacaaccgcg 120
tgcaggagct gaggggtgcc gattcttggc tgacgcctgc aggagcaacg cacgaatctg 180
aatggctgag ggagacactg cgcaagtggc tcgacgacga gtactgcccg gagccggcca 240
acgtggacat cagcagcacc gccgcgcggt cgtatcgca atcgctgata gcgcggcagt 300
ctgatctggg agagatcttg ctgaggatgg tgggcgacct ggacaagctg tcgtacatgg 360
agagc 365

<210> 17143

<211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-002-Q1-E1-F7

 <400> 17143

 cacacgcgtc cgccacgcg tccggggggg taaagttttg gtgtccgtgt ccctcgttgg 60
 ctctgttcgcc gacagggagg acgccgatct ggccgacgaa gtggtccggg agcttggcgg 120
 gtggttcggc gtcggagagg tcgcgtcgtg gacacacttg tcgacgtatc gcatcggggtt 180
 cgcgagccg gaccagacgc cgccacgac accggcgggg agggaccgga gagttggtga 240
 cggattgtac gtctgcggtg accactgggtg ctccgccacg ttcgatggcg cgctggtgtc 300
 cggaaggagg gcggccgatg ctctggccaa tgacacggga ctgtgaactc cctatcatgg 360
 ggctgtgttt gaggttgtcc gtgctgcact gcagagtga g 401

<210> 17144
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-002-Q1-E1-F8

 <400> 17144

 cccacgcgtc cgccacgcg tccgcgcgac tccaccgtgg ggctgtctct gccgcgcccc 60
 tgttccagct cctatggtgg cgctcggttt ccagccgtgc cgtgatttct tgctcggatt 120
 gcgctcgact tccagcgccg tggctcgtc aagatccctg tcgagctcgt ccctgcgcgc 180
 acgtttttct gcacgcagct tctcaaatac gtgctcggat ctgctcagcc gccgttctct 240
 aacctgtgtc tcggtcggcg tcgtggagtt ttggttgatc ggctcgtcgt tgacctcgcc 300
 gatgtcgtcg aaccgtcgaa ctttgttctt ccctgctcga tctcgtcgaa ccacgaatcc 360
 cggacttttag acaaaaataa gcaaagtccc tgtgcacgc ttatcaagta ctccgtcgaa 420
 gactt 425

<210> 17145
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-F9

<400> 17145

tgccattct acaagtttg ttacatgtca gcaaattgtg ccattgccga ggctattaag 60
ggcgagaact ttgttcacat aattgatttc caaattgttc aggggagcca gtgggttact 120
ctgctacagg cccttgctgc aagacctggg gggccaccat acattagaat cactggtata 180
gatgactcaa attctgctta tgccagagga ggcggttg atatagttgg gaggacgttg 240
tgtgatgttg ctaattcatg tgggtcttct tttgagttca atgccgttcc agctgctagc 300
catgaggttg agcttcagca tcttgctata agacatgggg agattattgc tgtgaatttt 360
gcctatcagc tacatcatgt tc 382

<210> 17146

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G1

<400> 17146

cagacgcgta ggctgcttct ccataccgt cgttatcatg cagcctgctg gaatgccaca 60
gcgggacagg agcatgggga tgagcaggcg caagatgact gcaagtggcg ccgatcccg 120
acattcggcg actggaacct gcgggacgac atgccogtca cctaatactt gcaagcaggg 180
acttcttcat cgttgtgctg ccggcagaga acgacgacga cgaggatctg ttcaacgtgc 240
cccagtgttc ctgccaagcc ctacagctac aagaacgttt tgggtggatt tgtagggttg 300
tcatgtgaat tgcataaac agggagtcac ggacgatatt gaagttgtgg ctgtggatga 360
cccttttgtt gatgccaagt ac 382

<210> 17147

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G10

<400> 17147

cattccccg gtccagtggc ggacgcccta gccaggcacc acaggccaca gcctgggctg 60

cccactgcc ccggtcgccg tcgggcaagc gccgtccaac ctgtgcgtca ccgcctccgc 120
 cttcagtttc gcctccagca ggggcgccgc gtgggggtatt cggttcgtcg tcgaggagag 180
 agagtcaatt ctgccgaggg agcagggatg gagccggtcg tggggatcgt ggtgtcaaac 240
 aagatgcaga agtcggtggt ggttgcgggtg gaccgcctct tccactataa gatgtacaac 300
 cgctatgtca agcgcacctc taagttcatg gcacacgacg acgctgactc ctgcaacatt 360
 ggcgaccggg ttgtatgggtg gggattg 387

<210> 17148

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G11

<400> 17148

attttcaatt gcaccagatg cccctgaaat gttgttgctt gactatccca gtcaccagcg 60
 acgccttcta ccacttctag caaaagtatg tctgatgagc agtgctggca attttatgaa 120
 aaatatgtat gtaaagagaa ctctgaaat gagcaaagac atacacattt actctagtgc 180
 tetgaaggcg acactaactt ggcagaatat gattacgatt caggagtgtc gcgaggcctg 240
 tggagggtcaa ggtctgaaga ctgagaaccg cataggaatt ttcaaactcg aatttgatgt 300
 ccagtctaca tttgaggggtg ataacaatgt gctaatgcag caggtaagca aagcgcttta 360
 tgctgaattt ttgggtgcac aaaagaagca gcagccattc aaaggattgg gtttggga 418

<210> 17149

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G12

<400> 17149

cccggagcag gtggccgcgt acaccctcaa gtcctccac cgccggatcc cccctccgt 60
 gcccgggatc atgttctct cggcgggca gtcggagggtg gaggcgacgc agaacctcaa 120
 cgccatgaac caggggcca acccggtgca cgtgtccttc tctacgagc gggcgctgca 180
 gaacacctgc ctcaagacct gggcgggca gccggacaag gtcaaggcgg cgcaggacgc 240

gctgctgctg cgcgccaagg ccaactccct ggcgagctc ggcaagtaca cctccgacgg 300
 cgaggccgcc gaggccaaag agggaatggt cgtcaagaac tacagctact aattaatcgc 360
 ccggccatca cccggggata ccgcccgc tccgagagat a 401

<210> 17150

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G2

<400> 17150

acgcctccgc acttctgtca actccgttca aacttctggc tgctgggtccg cttggaatgg 60
 ccactgtcac tgctgggatg tactgtgctg gcagatacat tactgacata cgagtaagga 120
 aggacgtagc aaaagttgaa gtggagaaat tatcatcgca ccccggtttc caccttggtg 180
 aacatgaaga atcagtcaac aagcgatcag aaaaaccaa gaccttgctc cctatgaaga 240
 ggaaaccaca aacgtgactg cgaagcacag cttacgacga tgaacttctc ttcccttcaa 300
 ttggtgtcga attgtggata acttgggata tgataataag atcggtatag atatgtgcct 360
 tgccaatgta tcataagtgg attaggcgca cccctcacc 399

<210> 17151

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G6

<400> 17151

ctaaaatgag tcgtattagc ttgagcagaa cactgagaga tcaagattat tagcttttgc 60
 tggagctacg gggattgcc aagattctga ggagtgatca tctcgcaagg attgccagc 120
 tgggggtatt tccttgtaaa 140

<210> 17152

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G7

<400> 17152

cccacgcgtc cgacagaaca tcgtcctcag cggctacggg aaggccgggc ggttggacga 60
catggagcga gtgtcttccg acatgctcga cagcgtgtca tgcaaaccgg acgtttggac 120
catgaacatc atcctcagcc tcttcgggaa cgggggcgag gttgaactga tggagagatg 180
gtacgagaag ttccgaggct acgggggtcga gccggagacc cgcacgctga acatcctgat 240
tggcgcttac gggaagcggc ggatgtatga caagatgtcc gcagtcatgg agcacatgcg 300
caagctcgcg ttcccgtgga cgaccgcgac gtacaacaac gtgatcgaag catttgctga 360
ggccggcgac gccgggaaca tggagcac 388

<210> 17153

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H1

<400> 17153

atctacttca cctgaaccca tggagagtga caacggcaaa attgccgcgg ctactggcga 60
cgacttggtta gaacagctag aagccctgaa gcaacgcttc atggaactca ctgcaagcta 120
tggcgtgccg cagctcgaga ggctgtattc caagataatg aaaggagcaa tagagttgac 180
aagtaaagaa agcaacgagg atcataggcg gttagtagtt aggtatttgt ggacattcgt 240
tgagaacagc aacaattttt aacctggcgc caataagatt cttgttttcc ttgtacatcc 300
tctttggaac gaaacaatag tagccgttca tcttgggagt tgtccccgtt ccatgccttg 360
tgacaaatct tccaaaatgc tctactgttc 390

<210> 17154

<211> 134

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H12

<400> 17154

aacctccctc tcagctaattg tacataacca tgcattgggt ttcgttttgt gcgcttactt 60
ctggcttgcc agcgtatggt tcaatgtgga aacacatgta ttagtacgag aactaataga 120

cttataatta atat

134

<210> 17155

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H3

<400> 17155

cggacgcgtg ggggagtgat catcaccaat atcattcgct atgttgctgg aaacagtgcg 60
ctgatttcgg ctctctcccc tgtagcaaat cttgttctga agagcgtgcc ccgggggggct 120
gcaactactt gttacttggc attgcaccct aatgtcaag gtgtatctgg taaatacttc 180
gctgattgca atgaatcaac accgactgct gtcgcaagag actcagagct ggcgaagagg 240
ctatggtcgt tcagcgaaga acttgtcaag atctatgctg atatgtcaca gacgacacag 300
gcaagcgaag aggaggaaac cacggttacg agagacgttt tccaagacaa gtagcgtaat 360
atatgttgcc gcgttttcta ctttttgt 388

<210> 17156

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H4

<400> 17156

cggattacat cggcatgctg gccactgtga tgaatgctat atttcttcaa gcgacgatgg 60
agagcatcgg aataccgacc cgtgtccaga ctgccttcgg tatgtcagaa gttgcagaac 120
catacatagc ccgaagagct gtcagacatt tagagaaagg aagagttgtc atatttgctg 180
ctggaacagg gaaccattc ttcacgactg atacagctgc tgctctccgt tgtgccgaaa 240
tcaatgcaga ggtagtgtg aaagcaacaa atgttgatgg tgtgtatgat gcggacccca 300
ggcagaatcc aaatgcccg cttctggaga ctgtgagcta tcatgaagtt acgacaagag 360
atctctcagt aatggatatg actgctatta cactatgcc aaaaaaac attccc 416

<210> 17157

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H5

<400> 17157

cagtcgagga ggaagaccag tgagcccaat gaggagaacg tcacccttgg acccactgtc 60

cgtgaaggag agtatgtctt tgggtgttgc cacaatcttg catccttcaa tgacaccttc 120

attcatatca ctgatttgtc tggggaggga actctgggtc ggatgaccgg taccatccta 180

aaaccttggc tgtgcacgac ctaggtggca gctgtatatg gttttaactg agatgtgcta 240

aacctgaacc ctgtatgtgg catgaagggtg aatgctgacc gtgacgagtc gtcaccttac 300

gctgctatgc ttgctgtca agatgtcgca cagcgctgca tggagcttgg cattactgca 360

ctgcacatta agcttcgtgc caccggaagc aacaagacca aga 403

<210> 17158

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H6

<400> 17158

cagtcacatt gatgggatcc agggccacat cagcagcagc gcagcatgaa acaaatcaag 60

tcgtcgtca cctcgaccaa cacatctagc gatgacaact agtaggcata cgatgcaagc 120

actggctttg tgttcaattc gacgggcctc cagatcatcg aagccgagct caggcatctc 180

agcacagcag ctggaagaca gcggtcaact gcagctgacg catacctgat gtcgaccaat 240

ttcgtgtcga tgtgggctat tgaacttcat tgctcc 276

<210> 17159

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H7

<400> 17159

cccacgcgtc cgccaggatg catacgtaaa cgccatacgg agggcgaaga acttcatcta 60

cattgagaat cagtacttcc ttggaagttc atacggctgg aagcccgaag gcatcaagcc 120

ggaagaaatc ggtgctcttc acttgattcc gaaggagctc tcgctgaaga ttgtcagcaa 180
gattgaagct ggggagcggg ttactgttta tgttggtgtg ccaatgtggc ctgaggggtg 240
tccagaaagc gcttctgttc aggcaatcct tgactggcag aggagaacga tggagatgat 300
gtacactgac atcgcacaa .ctctcgaagc caacgggatt gaagcagacg ccaaggac 358

<210> 17160

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H8

<400> 17160

gactaccaca ggcttgctac acccggggaa gctgccgcag caggggcgtc cgatcgctgc 60
ccccaaaact gtgggacgta tcagtgtcag ggtcgctcag agtcgatcgc agcaacagca 120
gcacgtgccc gaagaggaag cccaggcagc aatcgtgctg ccgccacagg acgctgcaaa 180
tgatgcaacg taggtggacg tcacagtctc cgacacagca gcctttggct gagagcatga 240
tcataatcct cgagtgcagc aggcagtagc tgagcagcac caaacgacac gtccgcatct 300
actcggcgta catcgatcca gtgacgaaca ctttcaacca gatgcatatg gccaagctga 360
tgc 363

<210> 17161

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H9

<400> 17161

cgacgagatc cagagcaaaa cgtacatgga ggtgaagggc acgggcacgg cgaaccagtg 60
cccgaccatc gacggcggcg tggagtcgtt cccgttcaag gccggcaagt accagatgaa 120
gaagctgtgc ctggagccga cgtccttcac cgtcaaggcg gagggcatcg ccaagaacgc 180
cccgcccagag ttccagaaga ccaagctcat gaccgcctc acgtacacgc tggacgagat 240
cgagggcccc ctcgaggtcg gctccgacgg cacgctcaag ttcgaggaga aggacggcat 300
cgactacgcc gccgtcaccg tgcagctccc ggggggcgag cgcgtgccgt tcctcttcac 360

cgtaagcag ctgctgccca ccgggaagcc cgagagcttc ggcggggcct tcctcgtg 418

<210> 17162

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A1

<400> 17162

taaggtcaca tgggcggcag cgggtgggttg tttaagatgg cccaaggctt cctcaagtag 60
atattgtctg gccaacgtat atacgagtac gtgattagct tcaaaataat gttcccctcg 120
cctttatttg ctgttcaagt ccttgtaata accgagaacg ttaattgtaa cagtgtgttt 180
tttatatgat taaaagagaa gtgacagaaa cagggaaata aagaggaaga actggaagag 240
aagagaaggt agagggccgg aaacaagtga gaggaagaga aacaggaagg agacaaaaaa 300
gaaggggggg gcgccctaag ggt 323

<210> 17163

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A12

<400> 17163

atgataataa gccgaacaaa gatgacattc agaagcgtag ggtaatagtg gaagctgaag 60
caagagaaga aggtgaaatt tctgaatcgg aggcagagac caggtatcgt caggacaaag 120
aggagaagtg gcttgaatgg tgctctgaag ttttagatga ggagcaggaa actttgaagc 180
gcctggatag gctgcagaat acaagtgtaa acctcccaa ggaaaagggt ctttcaagga 240
ttcgcaagta tctcctgata attggggaca aaattggaga agttgtccgg caacacagtg 300
aatcgtatag gcaagtcctg catggtcatg ag 332

<210> 17164

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A3

<400> 17164

tacaccaaga gaaattccca gttcttttggc ccgcgtcaga gacgcggcgg cgatgtctgg 60
gcgcggcaag ggcggcaagg gtctgggcaa gggcggcgcg aagcgccacc ggaagggtgct 120
ccgcgacaac atccagggca tcaccaagcc ggcgatccgg aggctggcta ggaaggggtgg 180
cgtgaagcgc atctcggggc tcattctacga ggagaccgc gccgtgctca agatctttct 240
cgagaacgtc atccgcgacg ccgtcaccta caccgagcac gcgcgccgca agaccgtgac 300
cgccatggac gtcgtctaag cgctcaagcg ccagggacgc accctctaca gcttcggagg 360
ctaagctagg ctctctttca tagtcggga ctggtaagg gacatgtct 409

<210> 17165

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A5

<400> 17165

accacgcgtc cgtcgaagcc caccgaattc cctgcgattc ctctcccctc gcctcctcgt 60
ctccccctag gggatcgtcg gagaggaatc gcaaagaggg ccgtctcatc cgagttaagg 120
aagccatgga gcacaaggag gctgggtgcc agggccccga gggacccatc ctctgcatca 180
ataactgtgg cttcttcggc agcgcggcga ccatgaacat gtgctccaag tgccacaagg 240
agatgataac gaagcaggat caggccaagc tggctgcctc ctctatcgac agcatcgtga 300
acggcagcga cgccgtcatg gagccggttg ttgctggcag caacacggta gtagctgttg 360
cccaagttga gttgcaaaca atgaacgtgc agcagcccgc tgatgttgcc ggaccagcg 420
a 421

<210> 17166

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A6

<400> 17166

cccacgcgtc cgggcttggc ttgggactgg gccgcccggc cgcgaggaat aaactcactc 60

ctgccttcat acgtatccaa tatccatagc cgcggcagta cgtgtatgtg gttagctata 120
 cgcgacctca gctcggggcg aagctacaac gccgaccagg cgagaagaag catcgatagt 180
 gtgacgagct aacccaccag cagcaacgta atccaaatcc atggacaacc agccgctgcc 240
 ctactccaca ggccagcccc ctgcccccg aggagccccg gtggcgggca tgccctggcg 300
 ggccggcctc gcagccgtgc cgcagcacca cctgctccag cagcagcagg cccagctgca 360
 ggcgttctgg gcgtaccagc gccaggaggc ggagcgcgcg tccgcgtcgg acttcaag 418

<210> 17167

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A7

<400> 17167

ttcatgtagg cctctgatat ctggtctcag ccaagcagta caaatctcag acaatgcatt 60
 gtttcaaact ctcataaaaa gcaagattct catacgaatg gttacattct cataaatgca 120
 aatggagggt tgaatcaa at gagatttggg atatgtgaca tggttgctgt tgctaagatc 180
 ctgaaggcaa ctctggttca tccttcactc gatcatacat cctactgggc agatgacagt 240
 gaatttaagg accttttcaa ctggaggcac ttcatgagt cactgaaaga agacattgat 300
 attgttga aa cacttcccc tgaatacagt gacattgaac ctttggctaa agctccggta 360
 tcttggtcga aggtgcatta ttacagagat gaaatcgccc cccttctgaa ga 412

<210> 17168

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A8

<400> 17168

accgcgcgca ctaccgcctc tcacgacctc ctctctttcg cgaccacagc aacaaggagg 60
 cggctgctcc tctccaccgc caccaccacc attgcgcgcg ccatggcgcg ttcttctccc 120
 tgcaagggtc tcgactccca cctgcacgtc tggggccacgc cacagcatgc caaggaggag 180
 taccggtact tcccaggcca ggaacccacg ctgcgtggcg acgccgactt cttactcgag 240

tgtatgagtg aagctggagt ggacggggct gttattgttc aacctattaa tcatatgttt 300
gatcattegt tggtaactag tgtgttgaac aaatacccat ccaagttcgt tggttgctgt 360
tcttcgaaat cctgcagacg atgggactgg gattaaacaa ctttgacatc tga 413

<210> 17169

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-B10

<400> 17169

accacgcgtc cgtgcggagt tgtgtatgct gcagctagga gacaccgggt tccccttcct 60
gaagatectc cgtggtggac tgtctttgat gctgatgaag cagggaattca ggaagtittgc 120
agggttcttg ctcacctcta cagcttgccc aaggcccaat acattccagt atataaagac 180
aacgattcct ttactgttaa gagaatctct gatctacagg cttcaaagga aagtccagca 240
agggctgttg ctacgcataa gggtagccct gtacctcaa gttctagcca ggagaaggat 300
ccagtggcta agactatact gaacaagggt aaagaaaaaa gtgatgacga aggtaaacca 360
ttgcccgtcg aatttgatgg gaaagaaaa 389

<210> 17170

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-B11

<400> 17170

ctcccgggta cgaccacgg gcccaattcc ccgctaacac tgatcggatg agcaaggaga 60
tcacctccct tgcgccaagc agcatgaaga tcaacgtcgt cgcgccacct gacaggaact 120
acagtgtctg gatatgaagg tcgatcctaa cgctcgctca gcactttcca acagaggtag 180
atatcaaagg gggagtagca tggggtctgg cccggcaatt tgtcacagga agtgcgctca 240
ggtttcgg 248

<210> 17171

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-B2

<400> 17171

atcgttacct cCcttcccat cccccactgc tcagcagtc gtcagcactc gccacccaCa 60
cgctccgct ccgcccacgg gtccactcca actctccgat ctccaggaat ccgcggtga 120
ggcgccggcg atggcggtc ccatggtcga cgccgaatac ctgcgccagg tcgacagggc 180
gcgccgccac ctccgcgcc tcatctccaa caagggatgc gcccgatca tgctccgcct 240
cgcatggcat gatgctggaa cttatgacct gaagacaaaa actggtggtg caaatgggtc 300
gattagatat gaagaagagt acgactcatg gttcaaagtc tggtttaaag attgctatcg 360
atctccttga gcctatcaaa gcaaagaatc caagataac atatgcagac ctgtatcagc 420
tt 422

<210> 17172

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-B5

<400> 17172

accacgcgt ccgccgtcat catccagccc acctccaaga agaccatcac cgagtacggc 60
tcccccgagg agttcctctc gcaggctgac tacttgctcg gcaagcaggc ctacggcggc 120
aataccgact ccgagggcg gttcgagacc gacgccgtgg ccaccgcaa cgtgctggag 180
agctccaccc ccgtggtgga cggcaagcag tactacagca tcaccgtgct gaccaggacg 240
gcggaaggcg acgatggcg caagcaccag ctcatcagcg ccaccgtctc cgacggcaag 300
ctctacatct gtaaggcgca tgccggcgac aagcgggtgg tcaagggcg cagcaacggc 360
gtcgagaatg ccgcccctc cttcagcgtc gcgtgaccga cgtaactatt gtttctttga 420
t 421

<210> 17173

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-B6

<400> 17173

aaggagggga tagcatcgtc atcgcaaaat gcaggctctc ctgctccccg cgcgggcccgc 60
gccgccgacg ccggcgatgc ttccggcagcg tgcggtttct gcctccgctg gtgcgtcgca 120
ggtctgccgc cccctattcg gtgccgccag ttgcatctcc tgtgggggtcc acggaagcgt 180
tcggcggcac ctacacagtgg cgggtggcggc ggccccgcc tgccttcgt cctcaccttc 240
gtcgggaccg ctctaccga cgctccacc caccgagcag gaggtggaga gggtaagct 300
cgagcaggtt atgaggagac tagagaaaac agcagggtat ttcaagaatt tgggtaccct 360
ggggttctgg tccaattgg tgtgcacaat tatttctgct ggaattttg ga 412

<210> 17174

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-B7

<400> 17174

aaacggacgc cttttatttt tttttttttt tttttttttt tttttttttt 60
ttttttttta caaaaaaatg aaatctgacg tggacaaaac ttgctttgag atcgccaaat 120
aatggaaggc atggcactag tttctaccag cccaaaatgc tcagaagaac aagattgaat 180
cagaatgtga ccaatataca tgtaatttc tgtagccaac accaaagtga aatctgcttg 240
cttgctatc attaaaggcg tactcaagcc gtaaagggtc cagaggggag tccacgcgga 300
cgccaacacc atagccaaag cactccctg gctttccacg agctccggct gggtcaccag 360
gaactttacg accagaacca agatcactac catagtctcc aaagaccacg ccttcc 416

<210> 17175

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-B9

<400> 17175

aacgaaggct acagcgtcga gcaggagcac ttcaagaggg aggagaagga gcataagcac 60

aaggagcgcc tcggcgaggt gggcgccctc gcgggcgggc cctttgctct gtacgagggg 120
 caccgtgcga agaaggaccc ggcgaaacgcg cagaggcaca agatcgaggc cggcgtggca 180
 acggcgggcg cgctggggcg cgggcggtac gcgtagcacg agcaccgcga gcagaaggag 240
 gccactacg agagcaggca gcaggagcac agggtgccgc acgggcacgg gcacgggtac 300
 tcctactact gcgactgaaa cgactgatca tcccatcgat cgagatatgc atgcagaact 360
 ccatatatat ac 372

<210> 17176
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-003-Q1-E1-C1

<400> 17176
 ggtagacgac gcgtccagt gcaatggcgt cgtccatgct ctccgctacc accgtgccac 60
 tccagcaggg gggcggcctg tccgagttct cggggtcag gagctccgcg tcgctgccc 120
 tgcgccggaa tgccacctcc gacgacttca tgtccgccgt ctcttcagg acccagcg 180
 tcggcacgag cggcggtcg cgggcgggcg cgacggaggc gaagctgaag gtggccatca 240
 acgggttcgg ccgcatcggg cgcaacttcc tgggtgctg gcacggggcg ggcgacgcct 300
 cggccctcga cgtcatcgcc atcaacgaca ccggcggtgt caagcaggcg tccacctgc 360
 tcaagtacga ctccagctc gggcatcttc gacgccgacg tcaagccggt cggtgacaac 420
 gccatctccg t 431

<210> 17177
 <211> 322
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-003-Q1-E1-C10

<400> 17177
 ggcaagcacg ttcacgtca gctccagcaa tggctgcctc caccatggcg atctcctcca 60
 ctgcgatggc cggcaccccc atcaagggtg gtccttcgg cgagggccgc atcaccatgc 120
 gcaagaccgt gggcaagccc aagggtggcg cgtccggcag cccctggtag ggccccgacc 180

gcgtcaagta cctcggggccc ttctccggcg agcccccgag ctacctcacc ggcgagttcc 240
 ccggcgacta caggtgggag agcgtcgggc tgtccgccga gcccagagacc tttccaaga 300
 accgcgagct ggggagtggt cg 322

<210> 17178

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C11

<400> 17178

ttcgcggtac gacgcacgcg cccatgctac gccaaagcac ctctcgtcta tttatggaat 60
 ccccgatcc atgaagccgg ggcaggccga gagttgtcaa cgacgacgtc tgccggcagt 120
 gctcctgctc ctccgcctcc tccttcccgg ccgcgcgcgc agcttggtgg gttagtgtct 180
 cttcttcgcg gacacctgtg agaggagcca tcatcatggc cgccgttgag actggtgtcc 240
 tcaagggtgc tatgtcatgc gaggggtgcg caggggcggt caaaagagtg ctctccaaca 300
 tgggacgagt tgacaccttc aagatagacc tcaatgaaca gaaggtgaca gtcaaaggga 360
 atgtcaagcc tgagg 375

<210> 17179

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C12

<400> 17179

ccgggacaac ccacggggccc gaaccctttt ccgagctcct cagttctcgt catcgtcctc 60
 gcgctcagtg tcatttgcag ttcccggcag cagccatggc gtccgtgcag ctgtctgggc 120
 cgccgggtggg ggcgggctgcg aaaccggctg cgttgggcgg gctcctcctg acgccgtccc 180
 ttgcggtgcc aaagggggcg ataaccaccg ggctcgtggg gagggccgcc acggtcgtgt 240
 cacctaagta tacatccata aaaccattgg gagacagagt acttgtgaag atcaaacact 300
 ctgaggctaa atctgatgga gggattttac ttccagtatc agttcataca agaccacaac 360
 gacgggaaat tgttgccgtt ggggtcaaggg aaaaattt 398

<210> 17180
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C3

<400> 17180

```
atgggcagaa ggacacagtt cgaaagtggg tgcgggtttc ctggagtcgc caagtacgga 60
gggtcaaggat cttgcaaaac ctgagttgca gccactgggt gatgctggca tccttaaagt 120
gccagaccct aaggttgttc aaaaatgact cgtgcgcggg ggcctttttg cgccagtaaa 180
tgactcaagg accatccctt gtttaaggga tacggatagg ttttttgaag ctcgttctgc 240
cgataaaaaat tgtaagtca ctcgttcgtg tgtacgccag tccgttgtag acttacctg 300
gatatatggt gaatccgata acgttatatt gttttaaact cgtaacgctc ctttttatct 360
atattttttt gggaaaaaaa aggggtgttt actaaaagag gcgagcaaaa aaaaagggcg 420
gg 422
```

<210> 17181
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C5

<400> 17181

```
cccacgcgtc cgcccacgcg tccgcccacg cgtccgcggc ttcacatca ctccactagc 60
cagtcagcta ctggcctaca gctagccgcc tctctcctc tcatcccatc ccatctcatc 120
tccgacaagc gaagcagagc actggcatga gcatggaccg catggcgcgg cgttccgtgt 180
ccttgctcct cgctctgggt ctcttgccg ccgcggcgtc ggcggaactc tggctgtacg 240
agaagttcac gacggagggc aacgtgcgcg cggactacaa cgcgcatggg cagcaggtga 300
cgtctctgat cctgacgcag cagtccggcg gcgccttcag ctgcgggcag aagtacctgt 360
acggggagtt cagcatccag atgaggctga tcccgggcaa ctccgcgggc accg 414
```

<210> 17182
 <211> 443
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C6

<400> 17182

gagtcccggtg tcgacgcaca agtccaaaaa ttcacggatt tcacaattgc tcattatctt 60
agtgggcccc taagaatagt tgattctgaa ggggttccag cttcaccagg tgattcttctc 120
gcggtagaaa tctgcaacct tggcccactt cctggcgacg agtgggggta caccgcaata 180
cttgaaagggt agaattggagg tggattctta actgaccact tccctagcgc aagaaaagcc 240
atctggtatt tcgaaggaat ctacgcattg tccccgcaga taccaggtgt tcgttttcca 300
ggattgactc atcctggtgt tgtgggaact gcaccgtcac ttgagctcct aaatatatgg 360
aatgaaagag agaaaagttt gtctgagaca agcccggaga cgattaaact gtgtgaagtt 420
ctacaccaga ggccccttgc tca 443

<210> 17183

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C8

<400> 17183

gcaaacctcc aaacaggcac gtcgacgtca cacgggctgt gcacacagac acaccaagcg 60
tcggcaccaa tggcttacta ccaggagggt gactactgct cggaggagggt gaggtcggtg 120
gccccggccg gcttcggccg ccacggcggc ggcgtccagc agcacgtcgt caaggagaag 180
ttcgaggagg tcgacacggt cgcacgcgcc ggcgccagc accaccacca ccatgggtcac 240
cacggcggcc acggcttcgt ggtgcgcgag accagggtcg aggaggacat caacacctgc 300
accggcgagg tccacgagcg cacggagagc ttcctcgcca cggctaactg agcagcccgg 360
gcggccggca tccacgcccg ttcgtgcctg cctgcgtgcc ttacgtatgt tcgtgattgt 420
gcacggtca 429

<210> 17184

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D12

<400> 17184

gagcccgagt gaacgggcga ggtctggacg agatgcagag tcgtcgtgaa ctacgctgac 60
agcgggaagac caccaccctc gatgtcgaga gcagcgacac catcgacaat gtcaaggcca 120
acatccagtc cagggaaatgg atcccgcggg accagcaacc gctggatctt ggccggaagc 180
aggtgcagga tcggcgcacc 200

<210> 17185

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D2

<400> 17185

ggccgcattc gacaacccgc tggaccacct gccgctcttc cctacttca ccaactacct 60
cctgctgagc cagctggagc acggcctgct ggcgcgccac gtcccgggcc cgccccctc 120
ccgcgtcgcc ttgcgtggct ccggcccgtt cccgctcagc tcctctgtgc tcgcctcgcg 180
ccacctcccc gccgcgcct tcgacaacta cgacatctgc ggggacgcca acgaccgcgc 240
ggcgcgcttc gtgcgcgccg acgccgcgct cgccgcgcgc atggcgttcc gcacctccga 300
cgtcgcccac gtcacccggg aactggccgc ctacgacgtc gtcttctctg cggcgctcgt 360
gggcatggcc gccgaggaga aggcgcgcgt cgtcgagcac ctcgggaggc acatggcgcc 420
cggg 424

<210> 17186

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D3

<400> 17186

aggcgaccgc gtacggtaag ctgcagaca agccggccgg gcagtacgtc gagaaggccg 60
aggggtacct gaaggagttc agcgcgggac acgccaccga gcaggagcag cctgcggcgg 120
cagcaggcga cgacgcggcg cccaagccac cggcgccgga ggccgccaag gagccggcgg 180

cggcgctgc gccggccgcg gaggaaggca gcaagtcgtc ggaaggcttc ggccctcggcg 240
 acgtcatgaa gggcgccgag cagctgggtg gaggggaagca gcagggcggc ggggaggaga 300
 gcgcccggcg ccgtgggctg ttttaagatgg cccagggctt cctcaagtgg atatattgtc 360
 tggccaacgt acgtgtactc gtgtagt 387

<210> 17187

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D4

<400> 17187

agggcggtgga gcgggtcctcg ccgcagtcgg agatcaaggc ggcgtaaccg tcgctgcaga 60
 agcgggtgcca cccggacgtg gccggcgccg ccggcgggcca cgacatggcc gtcgtcctca 120
 acgaggtgta cgcgctgtc tccgaccgg acgcgcgcct ggctacgac caggagcagg 180
 cgcgccgctc cgagttcgcc ggctacacgg gccgcccgt ctactcctcc tgggtcggcg 240
 ccgagtcgga gcgccggggc gtgttcgtcg acgaggtgcg ctgcgtcggc tgccctcaagt 300
 gcgcgtcca cgcgtcccg acccttcgccg tcgagtcgct ctactgccgc gcccgcgccg 360
 tcgcgcagtg ggccgacgac gaggacagga tcgtcgacgc catcaacacc tgccccgtcg 420

<210> 17188

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D5

<400> 17188

agtgagtcgt actacctgcc gcacgtcatc tccgaggcgc cgcggtccc cggcggtgcgc 60
 cacgtgggcg gggacatgtt cgcgtccgtg cccgcccggc acgccatcgt catgaagtgg 120
 atcctccacg actggagcga cgcgcactgc gccacgctgc gcaagaactg ctacgacgcg 180
 ctgccgaaa atggcaaggt catcgtcgtc gagtgcgtgc tgccggtcaa cacggaggcc 240
 acccccagtg cccatggcgt ctccacgtc gacaggatca tgctcgcgca caagcccagag 300
 cgcaacgagc ggtaccagcg cgagttccgc tagctcgggt agggcgcccg cttcaccggg 360

ttcacggcca ccgacgtgta ggcgaacgcc tgggccagcc gagttcag 408

<210> 17189

<211> 182

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D6

<400> 17189

aatagtcgtc gcgttagcag gcagatctga gttagccggc ggatccgac cgtgcgcgtg 60

cagtgtacgt gtgtcgggtg agatggccac agcttacgct cccatggcga gccagggtgat 120

gaagagcagc ctctcgtgct actcgaggcc gaggggcctg tcaggcgctg ctgcgctcac 180

ga 182

<210> 17190

<211> 106

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D7

<400> 17190

cccggttcga cgcacaactc caaaacagcg tccggtcatg ggcacgctcg ccatgcacct 60

catcctgtgc tctcctcgc catctcagca ccgccggcgc cccttg 106

<210> 17191

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E1

<400> 17191

gtcagtcagc ttcagcacca cgagcacgat ggccctcgcg ctgccacga cccactegc 60

gcatctcgcc cttgccccgc cctcgatctt eggtcccag tctcgcgtgc tgctgctccc 120

gcgccgcgcg tcgccccccc ccgtctccct ctcccaccgc cgcattcatg cggccgctgc 180

gaccaaggaa cccgagctcg gcggcggcgg atcgggggcc ggcgacggtg ccggaggagag 240

cggcggcggc agcgacccca ggggaggagg gcaggaacga gaccgggagg aagagaagat 300

ggggcagggc ctgtccatgt cgcacaaact caccctcgcc tacgccgcgc tcgtcggagc 360
 tgggtggtgta atgggatata tgaatagtgg gagccagaaa tccttggctg catgaggcat 420
 atca 424

<210> 17192

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E10

<400> 17192

agaaagagga gcacggacaa ggcagagcgc catcggtcgg ttcccttgct gaattcccga 60
 tcgctcgctc gctcgaaaag aaagaagcta gcttttagca tggcgtctct ggcgttcggc 120
 agcaccgtag cggcgcccggt ggcggcgaca tcggggagga cgcggccggc gcgccggtcc 180
 gtgctggctg tgccgcccgc tgccagcagg ggcggcccgg cgcggcccaa ggaggagaag 240
 ggctcggcg agaccatctt cggcttcac tcacaagaagg accagctggt ggagacggac 300
 ccgctcctca acaaggtcgg cgcgcgcgcg gccgcgcgct cccgcgcaa ga 352

<210> 17193

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E11

<400> 17193

acgcgtctac tcaggcgtcg ggaggagctc ggacaaggca gagcgccatc ggtcggtttc 60
 cgtgctgaat tcccgatcgc tcgctcgctc gagaagaaag aagctagctt ttagcatggc 120
 gtctctggcg ttcggcagca ccgtagcggc gggcgtgggg gcgacatcgg ggaggacgcg 180
 gccggtgcgc cggtcctgctc tggctcgtgcc gcccgcgtgcg aggaggggcg gcccggcgcc 240
 g 241

<210> 17194

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E12

<400> 17194

aaagacgcgt ggacggacgc gtgggcaatt ttagagcact gagcagagca cacatggact 60
agtattctaa gatgtacggt ggacgtctat ttgactga caaatctaga agtattctac 120
caaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaagaaaaa aaaaaaaca agaaaaggag 180
agaaaacaaa aatgaaaaga caaaaaaaaa aggggggacg cgcgatatct aaaataaggc 240
cgcaaacca acccagttct acgggtctcc cgcgttgccg ggcaagccgg gaaaagg 297

<210> 17195

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E2

<400> 17195

aagggtcaagt ggggtattcg ttacacgctg cagaagcatg cgcttagtcg ttatttgacg 60
acgataataa gtagatcgat ggagtagtga tcgagcaaca cacacgtgac gacgtttgct 120
cttatttact tacacgcacg cacgtgtacg gcgctagggg ccgtatatat atcgagttct 180
gcatgcatat cgcgatcgat gggatgatca gtgcgttcag tcgcagtagt aggagtagcc 240
gtgcccgtgc ccgtgcccgt gcggcaccct gtgtctctgc tgccctgctct cgtagtgggc 300
ctccttctgc tcgcggggct cgtgggtacg gcgtagccgc gggcgcgag cgcgcgcgc 360
gttgctacgc cgggctcgat cttgtgcctc tgcgcgtgcg ccggggtcgg tcttcgcaag 420
gg 422

<210> 17196

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E3

<400> 17196

gcaagactct aaagtgagtc atactaatca acccagccat ggccaaggca gctcctctc 60
tcctcgccgc cggcagccgc actgccatca cagcgcagca gccatcgctc aggaaaggcg 120

ccgctggcgc aggtttgttc tgcagtcgcg tcatcgtcag caagcgcgcc agggtaacag 180
cgaagctcgg agacggagag ctgaagcctg caggcaagcg gaagttcatc agcaaggaag 240
aggagccaga acagtactgg cagaccgcg gggagaggga gggcgagaat cccatgatga 300
caccctgcc ctacatcatc atcttcggca tgtccacccc cttcgtcatc ctcgccatcg 360
ccttcgcca tggctggatc aaggctccctg ttcgatgacc gtgacgcgaa agccagtctg 420
ga 422

<210> 17197

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E4

<400> 17197

aacactgcac tgcacaacgc aacctcctcc cctcaactac agggaaatca gccatgagtg 60
cgctcgtcggc gaagccagcc accggcgcca agacgtcgtg gccggagggtg gtcgggctga 120
gcgtcgagga agccaagaag gtgattctgg cggacaagcc gaacgccgac atcgtgggtgc 180
tgcccaccac cagcgaggcg gtgacctccg actttggggt cgaccgtgtc cgcgtcttcg 240
tcgggaccgt cgcccagacg ccccatgttg gctaggctag agcctcagcc tagaggctcg 300
cggcaccgcc gggcatgacc acctgctata tgtcactact agtaataaag tataaataac 360
agggaggatg catgctcatc cttgggatca aaaaaaaga aaaaaggcgg ccgct 415

<210> 17198

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E5

<400> 17198

accacgcgtc cggaggaaga agcgagagag ctgacaagaa tcgactgcca tcaatggctc 60
tggcgccggc gcctctccag tgcttcctca cgagcagcag accggccgta tgcacggcga 120
cgccgcccga taagcgcgcg aggaggccgt cgaggatctc gtgcagggcg tccggcgatg 180
acaaggacaa ggtcccgtcg tcgggaggga gcgatcttgg ggtcaagcag ctcgggaagc 240

tggccatggt cgcgctgggc gccggcgtgc tgggtgctcg ccccgctcgac ggtgccgtgg 300
 cgggcaagtc cggcggggagg gtcggggggc aggcgttccg gtccgcgctc cggtcgtccg 360
 gccctcggat caacaactcg aggaccagca tctacatcaa gccgccggtg gcgccgcc 418

<210> 17199

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E6

<400> 17199

ctcgtaggac gacgcaaac tctacaatga gtctgcataa attaatcatc ccggttcagc 60
 cctctcctgg cgcggcgctcg tcgtcggcct cggcctcggt gctcaacggc gccgtggact 120
 ggtggcgcgga ggtcaaggag tcacggctgt ggcaggaccg catcttcgag acgctcgccg 180
 tgctctacgg cagcgtctcc gccgtcgcgc tgggtccagtt gatcagaatc gagtgcaggg 240
 ttccagagta tgcgtggagg aggcagaaag tgttcgatct cgtagccgct ctcgtgaagg 300
 gcgtgaggtc tgccgtg 317

<210> 17200

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E7

<400> 17200

acacgcgtcc gccacgcgt ccgaaaaagg aaaggaaagg acaaaggagc ggcggcgagg 60
 tctatggcgt cgacggcggg gtacctggcg cggcggggcg cgcagaagga gcggggtgcgc 120
 ctgctctacc gcacggcgt caaggacaca ctcaactggg ccgtccaccg ccacctcttc 180
 taccaggacg cgtcggatct ccgggacaag ttcgaggcca accgacacgt ggataacctg 240
 gacgtggctc ataggctcat cgacgatgcg gaggctcagt acaggaactt ccagcaccct 300
 gatccctaca ttgttccatg ggcaccaggc ggcactaaat tcacaagaaa cccccctcca 360
 cctcaaggga tccagatcat ctacaatt 388

<210> 17201

<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E8

<400> 17201

aggacgcgtg ggcatttagg cgcacagagt cgctgtagtg aattcagctc gtgttagctc 60
ctggctaacg agcagaccat atggcttttag ttttgtggaa gtgggcgcga tttcgtcatg 120
tcatgcatgt gtttagctcct ggctaacctg caaatgcgtg tgttggtgca ggtttttgtc 180
acgtctgcgt cagctcctgg ctgaccagca gttgtttgtc gttcattctc tgcgtcagct 240
cctggctgac cagcagttat ttgttgtgca ttcttgcgct agcaccaggc taggctgcaa 300
aactgcaaat atttgttgca tggaacattg taaatatcag tcaattccca ttctgtttgt 360
tcaaagccga gtgcgttt 378

<210> 17202
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E9

<400> 17202

gacgcacggg cccaacacgc acttcaacgc tccgcgacgc cgcaacctct caccgccggt 60
ccccgccctc cgacctcca cgcgcaaata ggcgcctcc atccactagg aggatccccg 120
atgagctatg agaagtgttg atttggatat tcgtggagtg tgcaatggtg gactttgttc 180
gaccgctcgc ctctgccctg ctcaagtgtc ggcacctga catacccaat cggccaaagg 240
gcctcgatga cccggaacgc ctggctagag aaactgtttt taatgtgaat gaaatcgatg 300
ctctgtatga gctgttcaac aacattagca gtgctgtggg tgatgatggc ttgatta 357

<210> 17203
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F1

<400> 17203

accacaagtc cgcggacgcg tgggcaaaga cgcctcatga tcgtgtccct ttgaaggaaa 60
 tgaaatcaga ttggcatgct tgcctggaca acaaagttgg gttcaagggt tttgcagtgc 120
 caaaggagca gcaggataag gttgtcaaata ttgactttca tgggcagcca gcagaaatca 180
 agcatggtag tgttgttata gcatcaataa ctagctgcac aaacacctca aatcctagtgc 240
 ttatgcttgg tgctggtcct gtagctaaga aagcttgcca gttgggtcct gaggttaaac 300
 catgggtgaa gacaagcctt gccctggat caggagtgtt cacaagtac ttgcttcaga 360
 gtggtcttca agaatacctc aagcagcaag gattccatat cgttggctat ggctgtacca 420
 c 421

<210> 17204
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-003-Q1-E1-F10
 <400> 17204

tcgcgggacg acgcaagcct ctaaagtgac gtcgtactaa cgcgtgagtg aagtcgcata 60
 gttcactctt gcagcgggac gatagagact tcatacacct taaggttcat acaacgagca 120
 ggtgtatgaa gtctcatagt acactcttgc cgcgggtccga tagagagtcc acttcactta 180
 gggtgattta atttacgccg gatgcagacc taagtcaagg tacgtcctcc attgagagac 240
 tttgggattg ttcttacata gatcatggga tgagagggca atcagaggac atggagccat 300
 ctgaagatct ttccctaacg agacagtatg gcgagttagc tgatcgttac attaggtgat 360
 gatagagccg aatgcagaaa aatgcatggt gggtctttga a 401

<210> 17205
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-003-Q1-E1-F11
 <400> 17205

gcgcgggacg acgcaagccc ctacagtgac tcgcagtaag gacgccgccg cagcagccga 60
 ccaggagccg gcccggcgccg ccaccaagac ggccaccgcg gacgacgact tcgaggagcg 120

cgtgctacgg atcaagtccc gcgtcggggc caagaagcgc ggcgcgcgca agaagaaggc 180
 cgcgggcgctc gcgtcagcca gcgcggtgac gctcccggcc gtgccgctgc gggagccccg 240
 gtcggcgctc ggcgcgccccg tcgagcgcggt cttcaccgcg tacagcgagc ggttcaacgg 300
 cgcgcgggggc gcgggtgggg ctcggcgcggt tgctgctcgt ggaggcgggc gccgggc 357

<210> 17206

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F12

<400> 17206

tcgcgggacg acgcacgcgt ctaaacagag tcgaaatata gaccatatcc ttccacttgc 60
 tatggcgggc gcggcggtta cgccgaccac gacctctccg gcgagggctt cgtggcggtc 120
 tacgggttccc gcgagctcgg gatcggggagc aggagtctgc ttccgtgttg gagcgaagcg 180
 cttcagtcga gggctcctaa cgccaagcac ctgtcggcac cgacaccgag gcagaacaag 240
 gctcacagca gctcacatca gtagcgggga agccgggtggg cgtccaagca cggaggagag 300
 cgcaactggc atcgggtggc cgacagagga ttcccttg 337

<210> 17207

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F3

<400> 17207

aaacagcaca tggtggtacc atggagcgcg gagaatcttc tggcatgcat gcgaattcaa 60
 agccacgaag atctcatgtt gatgatgatc ttgatgagca tccaaagcgt actcgggtag 120
 aagatattga ccaatatagt gaagaatatt ctgagtgatg aactgataaa tcataattat 180
 cttgcaccaa cgaatttgat cagtacatgt gaagccgtca aggcataagt ggttttatgg 240
 tgcattggtga tgcagtgaag gagaatagct ggcagtggga ggacatcatg gcttggccag 300
 tttcttaagg gcagagtatg tgaagcaaag ctgagtgtaa ccagacttca agactttgat 360
 ctctgtagtg atcagagaaa gtatcacatt gttgtaaaga agttttgcct ttaaagtctt 420

<210> 17208
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F4

<400> 17208

gatggaacat gaccaaaaca tggcattttc tttctgcaag atgaaacgaa tggattgtgt 60
tcataacaata ataatatata taacgggctg tacaggacaa cagaatttgc tgttttcacc 120
cagatctaca gacagcgtga ctgaagtttg gatttcaatt cttgctgacg gcagtcttgc 180
aaactgggca aatgttcttc tgcgagagcc actgcttgat gcagtacaca tggtagctat 240
ggccacagtc tagccttccc atctcttcat ttgtttcaaa ttcctcttgg caaatgctgc 300
attttctttc catttctgtt gcgaaccgta aggaactgaa ggatgggtgc ttgaacttcc 360
taacgttgcg agtaatctcg tcgtcacgta accctgggtgt 400

<210> 17209
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F5

<400> 17209

aggacgcgtg ggtgcgagct caaccgcgcc gaactgccaa gccagtggcc gacatgctct 60
gtcctcactg tccctgctcg tccccctgct gcaagttgtc gggcaacctg cagctcggac 120
ttcaccatcg gctcttttgcg tgctccgctg caccagatcg ccgcgtcacc gtgaagctac 180
atgccttgcc ttgcgttgcc tttcgctgct gctgtagccg agtcgtcatc gcccaagtgc 240
tgagcgtctc gaacttgcca gcgttctgca gccctgccgt cgactctcta ctcgtctcgc 300
tatgttgta tagttcacta tcctcgctct cgccgtctac cttgccggtt cgtagttgac 360
tgttatttat ttagaacggt tggccgagta cttagtttta gtggtgtcgt c 411

<210> 17210
<211> 378
<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F6

<400> 17210

agccgctgct cgcatggcc ggacgaggag gaggtagcaa gagtagcctg tacgaggcgc 60
tgggctggc cagcactgc tccgagccg agctgagcag cgcctaccgc aagctcgcca 120
tgaaatggca cccggacaag tgcgccggcg caggagctc cggcgggcgc gcggacccg 180
ccaaggccag gttccagaag atccaggag cgtacggcg taactaatcc gctttccatt 240
ttgaatcata ctgactcta cgcgttactt ttgctttag gttgggtagc tctttttaag 300
agaattgtca tgtatgtacg tacacgtagt cgtcggccaa gtatattttg cagcttgac 360
ttatttggtg atgtgggt 378

<210> 17211

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F7

<400> 17211

actcgttgcc caccgtcggc atggtcgtcc cctacggcgc cttcttcgtc cctgccggct 60
ccgggaacgc cggcgggcggg acctacgcga aggacaagct gggcaacgac atcacggtgg 120
aggcgtggct caacacgcac ggtcccaacg accgcacgct cgcgcagggg ctcaagggtg 180
acccacgta cctggtggtg gagcaggaca agacgctggc cacctacggg atcaacgccg 240
tgtgcactca cctcggtgc gtcgtgccgt ggaacggcgc tgagaacaag ttcactctgc 300
cctgccacgg atcccagtag aacaaccagg gcaagggtgt ccctggaccg gcgcctctgt 360
cgctgggcct gggtcacgcc gccgtccacg acggcaaagt cctcctcgtc ccgtgggt 418

<210> 17212

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F8

<400> 17212

acggacgcgt gggcgaaaaa aaaagatgaa cagggaggga gagaggaaaa agatgaacat 60
gacaggacct cgtcgctaaa accctagcgc agcggcgcgagg gagcggatgc accttgccct 120
gatcatctcc cgcattcgcc tcttgccgac cgccatgccc agcaccgct ccgcctccgc 180
ctccaggctg ctggtccgcg ctgacaacag cccagttgca cgagaaatca aacgtgaatc 240
cagtgtttct tttgacactc cgaagcccga agcaactgtc tctgttaagc ggagaaagggt 300
gaatcgagaa cttgaagtaa atgggcagca tcataagaat caggtccttg acattgagga 360
ttttatatat gaaaaggcca agacattgac atcgtcaagt aaa 403

<210> 17213

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F9

<400> 17213

tcgcgggacg acgcacggcc ctaaagactg tcgaaatatt caggaacttg tcaccccatg 60
ttcaagcttg cgtgccagat ctctgaacg ttgctctaaa ttgcattgac aatgttagag 120
atactgatgg gaccttgccg gctgtcaa at caaagatcgc aaaccttgta gcaagcaaca 180
taagccggaa ttggccacag gatttgtatc ataagggtggc acagtgcata tgaagtggct 240
tgtgtgttga gttgatcagg aatctggact aatctgtatc agaactctga agctttcaaa 300
caatatgggt gtcaccccat cctgtgttta atgtgtgtca aatggtacga tgtttatatt 360
tacaaaaaga aatttcca 378

<210> 17214

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G1

<400> 17214

atagcaaacc tgtcgaatgt agatgggtgg tggagttcaa tcggggacca attgccgtac 60
tcagtcatgt gtatcatgag ggttctctcc tgggctttaa tggccttggc tgtggccaaa 120
atgaacggga gacaaggcac cacttgaact ccgtgccttg ataaacatcg agcatctcgt 180

cgccctcatc catgctgacc atcatcttgt cgtcctcgtc catgctgctg acgcgcaagc 240
gctgctggat gtcagtgttc atgcgcctgg cgaatgtgct gtgcgccgca aacttcctcc 300
ctgaaacggg ctgcgaaatt gggaatttgg agcgccagga aacttcctg attaggtcaa 360
ctccaagtct ccgcttggtg aatcccacta acaga 395

<210> 17215

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G10

<400> 17215

acgcgtccga gcagaatcat catacaactc ccaaggtcca aagcccaccc gtactcatcc 60
gcgatcccca accatggcgc tgggcgacgt ggagacggcg gcgccgctgc tgcccccgcg 120
ggcctctgcc ctggcggacg agccctccgc gggcccgcgc ccagacgacc ggctcggcat 180
cggctacctc atcttcttca ccctgggcgc cggcttctctg ctcccctgga acgccttcat 240
caccgccttc aattacttgc acttccctcaa cccggggggc cccgtcgacc gcgtgttctc 300
catatcctac atgggtctccg cttactgcc cctgctcgtc atcgtgctct tcttcccaa 360
ttcgaggggc cccattcggg tcaacacggg ggtc 394

<210> 17216

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G11

<400> 17216

agcttgtcac agcgcaaaac acacatgctt ttgtcctgga tggacggggt caccggagc 60
gaggcgctgc tggccaacgc cgtggcgggg cagcccgtgg ccgtgtccat cgaggccggc 120
ggcgacaact tccagcacta caagaaggga gtgtacaacg ggccctgcgg gaccaacctc 180
aaacacggcg tcaccgtcgt cggctacggc caggaggcgg ccggcggcga caggctactga 240
atcgtcaaga actcgtgggg gcacgggtgg ggcgacggcg gatacatcat gatgaagaaa 300
gacgtcgccg gcaagccgga ggggtctctg ggcacgcca tccgcccggc ctatccacta 360

atgtgacatg gtggtgtgca actgttttcc gtt

393

<210> 17217

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G12

<400> 17217

accgccgtcg ctccacgcgt acgagccggc cacgacctgc cttctcgcca cgcgtgcgcc 60
gctcctcccc ctgctggccg cctccatctt tctctgaac gccctcttct cgcgggcccg 120
cgcaagcgg agccgtctcg gcgagaccgt cacggatacg cccgcgggct cggcgatggc 180
catcatcggt gagcggcacg cccgggccga ggttgggtga ccgtcctggg cacggtgacc 240
gagccgttga gcccgcgac gggcaccgga cgggtggtca gctggtgctg gggcggcggg 300
cgcgcccggc aggggaccga gcggtccagc tgggacccgg c 341

<210> 17218

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G2

<400> 17218

taaccacgac gtccgtacgt acgtagatcg atccatcgat cgctagctag ctgacgacca 60
tggcgtccct ctctctgcc gccatcaccg ccctttcctt cacggccgcg cccgctcgcg 120
cagtggtcag caggaggtcc ttcaccgtgc gtgcctctct ccgcaaggcc actgccaccg 180
ccgccgtggc cgttgccgcc agcgtcctgc ttgcggcgcg cggcgccatg gccacgagg 240
tgctgctggg cgcaggcgac ggcgggctcg tcttcgagcc cagccagttc accgtcaagg 300
ccggcgacac catcaccttc aagaacaacg ccggcttccc gcacaacgtc gtgttcgacg 360
aagacgaggt gccagcggc gtcgacgcct ccaagatctc gcatgagggg tacctcaacg 420
cgccag 426

<210> 17219

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G3

<400> 17219

accacgagtc cgcccacgcg tccgagcgac tcccgtagct ggaactcgct cgtcaaaagg 60
aaaagaaaca cttcgcttca gctgggtgac agacgactca gagcaaaatg ggtatactgg 120
tgattacggt ggacctagac tgctgtcgct gcagagccaa gatcaccaag gtcctggact 180
gtctcaaaga ggagttctgc atcgagaaag tggagttcga tgacaagaag gagaagaagg 240
tggtgggtgg gcgtgggaag ttcgacgccg agaagctctg caagaagggtg tggccaagg 300
ccgggaaaat cgtgaaaggg attgtcatcg ctgaggtgtg gccaatacca gccccgcca 360
aggagtgcaa gcctgaggca ccgaaatgtt gcgactgtga gaagtgaag ccgaagccta 420

<210> 17220

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G4

<400> 17220

aaaaagaaac aatagtctca gaaccatcta gagacagcgg cccgtggagc ggacagcgga 60
gcgagcaagc ctgcgccgcc gccggcgctc tcccgaagta gaagctgttc tgatccacag 120
ctctcgattc cggaaggagt tggtaagaa ctggggatcc tgagttgaat atgatatcaa 180
atccggtgga ctggtatagt ttcggacccg gatagaattg gtagggatgc cagattggag 240
ggtgcgtgag tttgaaggta aattcactga tgagtttgcc cacagtaaca acaacaaaca 300
tgaaagtgga gttgaggctc ctggtgtcac tagtagtaag aagttgaagc atgcagttgc 360
cggtgagaaa attcaagggt tcatccctgg aatagatagc tcagatccac agaaatgtaa 420
ttca 424

<210> 17221

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G5

<400> 17221

actcgcgggt cgacgcacgc ctctgaacgc tctcctgcga cctccgcgtc gtcgacctcc 60
ccacttcgcc atccatgacg ccgcagttct acacctcttc cgtcgtcccc atcggcgcg 120
tctacgcgat gtcgctctgg ttctccaact cagcctacat ctacctgtcc gtgtcattca 180
tccagatgct caaggcgctg atgcccgctg ccgtctactc catcggcgctc ctcttcaaga 240
aggagacctt caggctctcc tccatgctca acatgctctc catctcattc ggtgtggcca 300
tcgcgccta cggcgaggcg cgtctcgacg tgcgcgggtg cgcgctgcag ctcgccgccg 360
tcgccttcga ggccacgcgg ctctgtctca tccatatact gtcacgtcc aaggcatct 420
cgctcaaccc tatcacctcg c 441

<210> 17222

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G8

<400> 17222

aatctgagga tgtgggcgag ctacgccgc aatgcgctca agctctcggc gggcggcgcc 60
ggagcccggg ctgctgctgc cggcccggcc ttctctatct ccaggttctt ctccactgtt 120
cacgatgggt tgaagtacac tcagtctcac gaatgggtca agacgacggg cgacgtcgcc 180
accgttgcca tcacggacca tgctcagggc cacctgtgag aggtgggtgtt cgtggagctg 240
ccggaacccg gcacgaaggt cgcgcgggga ggacccttcg ggaacgttga gagtgtcaag 300
gccaccagcg acgtcaactc cccgatctcc ggcgaggtcg tctaagtcaa tgccaaactg 360
tcaagagacg cccgtgcctg atcagcacia gcccgtaga ggacgggtgg gtgat 415

<210> 17223

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H1

<400> 17223

tcaccacgcg tctagatctc ggtctcggac tacggttgag cgaagtcgtc actgtaatct 60

acggatctgc aattggcgga ggcggaggca acggtggggc aactgatccg gtacccgtac 120
 gggggcactt cgtgctccaa ccttgcccgc atcgctctca atctcaaagg tgtggattac 180
 aagtacaagg cggatgaacct tctcaagggc gagcagtctg atccagaatt cgtcaagctt 240
 aatcctatga agttcgctcc tgcgttggtt gatggcagtt ctgtaatagg tgactcttac 300
 gcgataacac tgtatttga ggacaagtac ccagagcctc ctcttctacc tcaagacctt 360
 caaaagaaag ctttgaatca ccagattgca agcattgtag cttctgggtat tcaacctctc 420
 cataacctc 429

<210> 17224

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H10

<400> 17224

atctaaccac attgaaaaat gaaattggat tttcgggaga attttgaat aaaagataaa 60
 taaagaattg aatttgaaaa aaaaaaaaaa aattctttct atttcggatt cggattattt 120
 cttttttaat aggatggatt tcatcctctt tttggagcaa attttaactc attgtattcc 180
 atatggaata agaggagaag aaaagcattc cacgaccccc gaggggcccc ctcaaaaagg 240
 gaactattcc taaaatttac ttttttttat ttatttttat tcgttttttg aacccaaca 300
 aaagtggatt caaagttact tcaattatcc ttttctttta agttcttctt gtaaagtccc 360
 atgcttgctg tttggtcaag aaaattagac ctaatccaag aaagaag 407

<210> 17225

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H11

<400> 17225

gggacaacgc acgcgtccga acctccacca atatggtgtc cccatcagtg ctagagatat 60
 tctttcagat ctaaagctca aagagagtgt taaagcatac agtaactggc ctacgtttcc 120
 acagatattt atcagaggag agttcggttg gggatctgat atcatactca ccatgcacca 180

gaagggtgaa ctgaaggaac tgcttggcga tattgcacaa aaagccgaac aaagtgggttc 240
 ttcattgaaac aagcatcagt atttgtgatg caaacttccc ggactggatg ttccttctca 300
 gaagatttta ggtgatcgtg cattgttgcc ctgtggcttc ggatttgaat acgttctctg 360
 ttttgttcgg ttcggttgct gccagttggt gatggaagat cca 403

<210> 17226

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H2

<400> 17226

taaagtcact cgggggtcact gccagggcta ctgcaactac taccactccg tctttgtaga 60
 catgttttac agcgctgttc cgctcgcttc gtggctatat gcaaatgcaa gtgttgtagc 120
 gagtactaaa ctcatcgtg gcaaaagatg aataaagact taaacatttc ttcg 174

<210> 17227

<211> 112

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H3

<400> 17227

taaacgcac atgcctagct ctcataacgt tgtcgttggtg tacgtaaag cctctttag 60
 cctgaatgtc aggcgcccgg attcatgaat ctattttatt gttgtattcc tt 112

<210> 17228

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H4

<400> 17228

cccacgagtc cgagcgccac tgtccagtgc gcgcgtcaag cttgcttagc tagccgcat 60
 ggctccctc gccgccgtct ccgtgaagcc cgtggccatc aagggtctcg ccggcagctc 120
 catctccgga aggaagctcg ccgtcgccag gccgtcggcc cgctccatcc gcaggccccg 180

cgagccgcc gtggtggcca agtacggcga caagagcgtc tactttgacc tcgacgacat 240
 cggcaacacc accggacagt gggacctcta cggctctgac gcgccctcgc cctagaaccc 300
 gcgacagagc aagttcttcg agacgttcgc ggctccgttc accaggagag gtctgctgct 360
 caagttcctg ctgctgggcg gcgggtcacg tctgggctaa gtcagcgccg tcggc 415

<210> 17229

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H5

<400> 17229

aagacacgtg ggcaacagcg ccgactacga cgcgctcggc tgcctcaaga agttcaacga 60
 cctctccacc aaccacaacg cccagttgca ggcccagatc tccgccctcc agggcaagtg 120
 caagtgggcg cgcctcatgt acgccgactt ctagtccgcc gtctacgaca tggtaagaa 180
 ccccggaac tacgggttca gtcggtgtt ccaagcgtgc tgcggctcgc ggggcgggaa 240
 gtacaactac cgagacagcg cgcggtg 267

<210> 17230

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H6

<400> 17230

tcccgggtcg acgcaaactg ccagttagct ccgcattcga aggccagatt ccaagcaggt 60
 gaataataac agatgggtgc gagtaggacc acatcgaagc caagagatac atgtcgaca 120
 gatgggagga tcaatattat ccttttttta tttctttata accaaacacc ttggagtact 180
 ttgacacaag ggggtgtgtc acagtgggat ctccccagtt tcttgaatgc agaaccgtat 240
 ccgttgatt tgttccttct tgtcgtgagt gtaaacttag cgtgtccgaa attcggtttt 300
 agattgtagg tgtgactgta gcagggatta tctgggtgta a 341

<210> 17231

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H8

<400> 17231

aaatagttta cagaaatctt attctataca cacatatata catacgcagc acctatattt 60
acatagacca gaggccagat atctgttctg tacagaggag taggacaccc acagcatgaa 120
cttcctcctt cctcacaag acacgagatc actcaccaag agaagaagct ccacagctca 180
tgctagtatg ctacagtaca taccaccaa tccatctcct aaagattttt tttaaaaaga 240
atcctaactc caagaacaag taatagcagg tactggtggt gcggcgggtg gcatgcagtg 300
caccagctca tacggtagac cgtagtagta caacgccgac aggccggcgg tgggcacggc 360
gatcgatcac cagcagcccg taagcgcgc aggggcactt gcctttgat cagctgacgc 420
cgcg 425

<210> 17232

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A1

<400> 17232

cgcggaattc agcttcaccg ccccgatata ttccgcgact gcatgtctga ggatcacttc 60
ctcgccgtgg ttctgtctat tcgccaagag ctccggtcag cattattcgc agaggattct 120
cacataacaa ttgtctccat cacacaggtc aactcgattt ggtcaccgac aacggcacag 180
tttgctaaga cctcatcttc atatcacctc ccgtatcact tcccaggatc catattgatg 240
ctggaggaag agtccacagg gcattcaggg tatgcctgag ttcacgcacg actcaacgtt 300
gatcgtcaat cagcacttac gaatcactaa gctcttccat agtttcccat catgatgtgt 360
caccgttagt ctcaccatt 379

<210> 17233

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A10

<400> 17233

gctaaagctc tgatggagtc cattaagaat attacaaaac ttgaggtgcc caatctacaa 60
aaaaatattc ccaacagtga gatgcaatgt agactaactc gcttgccaag tagtcttctg 120
ccaggattga acttggggcat ttggaatggg ggtcactagt ttgttaaagt cgcaaatctg 180
tggggcaaate ggatatctcc tgatcctcct catctgccaa gcaacccac ctcttcaatg 240
aacaatgcag caacacacag ccagtcatgc tgaataacat gtcatacatc tgatgctgtg 300
acctaactc tgatggaagc atcaaagca tgttgtgtaa aacatattcg tcaagttatc 360
gtttttatat acgtaaaactg atcaagcacc gtgctgattg agggctgttc tt 412

<210> 17234

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A11

<400> 17234

acccacacgt ccgtcacgc gtctgccac gcgtccgcc actcgtctgc gaggcgtggc 60
tgggtccgagt cgcataccg ccgtacaacg gcgatggcaa gcataaccag aatcacgctg 120
ccgagtgcgg ctctgtcaga cgggccctga gcgcgtagca gtatcgtgc gtgacgtgcg 180
cctcggagtt gcacccccgc tgcttgggtgc cggaggtaca acagtgccgc agcgcacgag 240
agggctatgc cgggcgcgcg gggtccgcgg gcagtagctg ctgcttcggg ctggtagacg 300
acctgacgcg ccgcttggga acgccaggca ccggtcgtca atagcgtg 348

<210> 17235

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A12

<400> 17235

ataggctccg tacaaccagt ggctatcttg gagctgaatg tcaagaagct atggactcct 60
cattctcaaa catcgcatca tatgaaacac caagttcagc acgtgggaat agacagcaaa 120
tatttatgga gtctccagtt ggcttgagac cacatcttcc agctgagagg aaatgggctc 180

ttgggtcttca gtctcgagca catccaaaag aaataatgtc tgaagtgtg aaagctctgc 240
 aagaattaaa tgtttactgg aaaaagatag gtcactataa catgaagtgc agatgggagtc 300
 ctgggtttcc tgctcaaatt cataacaatc ataacttcag tgcagggtcc attgaaactg 360
 ataacctgag tgagagggtta agtttaatta agtttggaat tcagctgtgc aaagcaagag 420
 acgagaa 427

<210> 17236

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A4

<400> 17236

cgtcagctca cgcgtccgcc caagcgaccg tgttatgcct tcaagtgggtg ccgtaattg 60
 tcaatgtact tgtgacatat taggttggtcc atgatgtgtg atgactacag atatgggaaat 120
 cagactgatg atttgcgttt tcagctcata tttttgatcg ctttgcgaa gttgtgtttt 180
 ttatcgagg catagtagat atcaagatat gacagcgggt ccattgatca ccatgacatc 240
 tctggcatca ggtcctaaaa tttgttgctg gtcgcttcc atggtcagat ttcggctgta 300
 aatcttaatg atcatttcct caaggcttca gttgatgtct acttcataca tgagatgttc 360
 cattatTTTT gcacttagtt cgggtactatg 390

<210> 17237

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A5

<400> 17237

cccacgcgtc cgggaatggg taagggctat agcgggtgtt tccgacttgg agaagccaca 60
 tcaacctggg atgcagattc accaattatc cagagggaac catgggaaca catcaaagat 120
 gaaaatatta gaaaggcagc agcatcattc atgggttggc ggtgaaaaga tgtatgacaa 180
 agcaaggaag ggtgaaacag tagagctttc accaagacgt atatcgatat accaatttga 240
 tattgagcgc agtttggaag acagacagaa tttgatattt cgagttactt gctcaaaagg 300

aacatacatt cggtccctat gtgcggactt gggtaaagca cttggaagct gtgctcattt 360

aactgccttg cggagagact cgataggtga atactcggtc aatgatgct 409

<210> 17238

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A6

<400> 17238

gtgggcacag aggtccgaca ggggtgttctt gacaatagag ctgcccgcgc ccaaggatgt 60

gaagcttaac ttgaagcctg aaggccattt caacttctca gctaagggtt cagatgactt 120

gccctatgag tttgacattg agctgtttga tgctgtgaat gtggaggaga gcaaagcagc 180

tgttgcccca aggaccatat gctacctgat aaagaaagct aagagcgggt ggtggccaag 240

gctgctgaag caggagggca agccacctgt gttcttgaag gttgactggg acaaattggca 300

ggacgatgat gatgaagatg ctggatttaa taactttggt gatatggact tctcgaaact 360

ggacataaga ggtgctgatg acgacgatat tggggatgat gaaga 405

<210> 17239

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A8

<400> 17239

ggagcataac cacacggagc gcctcggcga ggtgggcgcc ctgcggggcg gcgcctttgc 60

tctgtaccag gggcaccgtg cgaagaagga cccggcgaac gcgcagaggc acaagatcca 120

ggccggcgtg gcaacggcgg cggcgctggg cgccggcggc tacgcgtacc acgagcaccg 180

cgagcagaag gaggccact acgagagcag gcagcaggag cacaggggtg cgcacgggca 240

cgggcacggc tactcctact actgcgactg aaacgactga tcattccatc gatcgagata 300

tgcatgcaga actcgatata tatacggccc ctacgcgggt acacgtgcgt gcgtgtaagt 360

aaataagagc aaacgtcgtc acgtgtgtgt tgctcgatca ctactccatc gatctac 417

<210> 17240

<211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-A9

<400> 17240

```

agcacattca aattgaccaa ttgctactag tgctataact ttattccgaa tggataactt   60
cctttcgaaa agactaaact gaataattat gtcaaagttg tttcactagt ttggcctaata 120
aggtattgat ctatgggtatc tagactgcag gttgtactat aggggttgatt gttctgattt 180
tgggcttggg taatctaaca tttctagcat ccaaacatat agatatatgt cagctacctg 240
tgtaccctgc acgaataatc ctataaatcc aggttgaata ttttctgcat gtaacctaaa 300
acttctacgc tatgggtctt cacttacagg ttgtcaaaga agagcacatg tgctaatttg 360
gttggggctaa aatttatatag aaaagagtgt tgccttgggc tacgagtcta aaactatat 419

```

<210> 17241
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-B1

<400> 17241

```

atctctgcac atttgtggtg aacagaatct tgagactggc atgttagcca ccattgggga   60
cctgaagacc gtctcggatt gtcagaatt ttactatact gatacaaaaa aatacagtaa 120
ctcatattgg taacggcgta aggcataatt cgtttttctg attcgctcga tcaatgcaat 180
acgacaaggg ttttgttttt gtctcacgtc tcattgtcct agctacgccc ataacacaag 240
gtatcattcc tcatgttgta tataatatca tctgggatga atgaaacact tttggacttt 300
tttttttgcg tacgagattc ttaggcaccg tttgtttttg gtcagaatga cttcactgag 360
ccttccatag aagacaatat tcataactgg ggaa                                394

```

<210> 17242
 <211> 78
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-B11

<400> 17242

ctcgcgggtc gacacaagcc tctacagtca ctcgggggtca agtcgttcaa cctcggcggc 60
atgggggtgca acgccggt 78

<210> 17243

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B12

<400> 17243

cccacgcgtc cgattggata ttacgagcca ctggtttcaa atgtacagtt ctttcttgtc 60
aggtaagact agccacaagg atgtaaaaca cacagggaat tggcttctga aattatatta 120
tgggtacagg ccattcatgg ccttctgctg tgtttcttgt gaggttttat atattttcct 180
gtttctcttt gctgatgagg agtcaacaag cttgcttagt gtatgcaaag gcacccctgaa 240
ccaaagtccc gtcgttatct tgggtgttgt ttccactcta gttggctggg cagtgaagca 300
agccaccaac gtcacccaga tgaaaactgc tgcggacgca tgcgtgggtg atgatctgaa 360
gcgagcaaaa tgaagcatga aggcagcttc acggtttagt atcgacatat ccaagggaaa 420
ac 422

<210> 17244

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B2

<400> 17244

aattttgtat tttcaatttt attatttttt ttttatgttt ttttttttat tatttttgat 60
ttgtttactt ctttattttt cattttttta ttatttttaa aagaactaaa caccgtcccc 120
aataattttc accacaaggg agaatacatc atacacaaca gcgggggtgaa ggttcaatta 180
aaaaggactt cttcatcaaa tttctctaata tgtaacagtc cagttccaat cttccgcct 240
aaacaaaag ccaggtttcc cacgtacgaa gactggcaca atccccatcg aggatttgca 300
atcaaccgtg catcagccaa tagaaccoga ggtccttgtc atcgacgaca aagtcaccct 360

tcaaaacccc acagtaagcc gcaacggggc aaaaaaaac cccggggaag aggcggc 417

<210> 17245

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B4

<400> 17245

cgggctctgg gagaggcgac gctctcgggt gcaagtgcct ctccgggctc ggggtgcccg 60

agctcgccgt catcgccggc gtcgccgcgc tcgtgttcgg gcccaagcag ctccccgaga 120

tcggccgcag cctcggcaag accgtcaaga gcttccagga ggcggctaag gagttcgaaa 180

gtgaactgaa gaaagagcct ggggaagggt gcgatcagcc cccacctgca acccccacgg 240

caacgggggt aggtggcgcg gagaaggggc ttgaggcatc aagtagcaag gagagcacgt 300

gaggatctat caagtgttgt tagtgttgtt ggtgtaaaat tgtattctgg tcttctggag 360

ttagcatcaa gttcatgtcc tttttaacca cgtcgccggg tcaggccatt gtagcgatat 420

<210> 17246

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B6

<400> 17246

accacgcgtc cgcgcaagca ctccacactg ctgtgcagaa cgagagccac accatcagta 60

gttagagcga ccaatagatg agttcctccc cgtcctttgg tctcctggct gtagcagcat 120

tactcctagc actgagctta gcacaacatg gtcacctcgc cgcaaccgtc ggccccaggg 180

tcacgcgtcg cggcgccggc atgtctggga tctcggcggc gaagaggctg tcggcgggcg 240

ggataaccga cctgctgatt ctggaagcga cggatcacat cggcggggcg atgcacaaga 300

cgaacttcgc cggcatcaac gtcgagttag gcgccaactg ggtggagggc gtgaacggcg 360

gcaagatgaa gcccatctgg cccatcgtea actccaccct caagctccgc aacttccgct 420

<210> 17247

<211> 415

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-B7
 <400> 17247

agaagatgca cacctacacg atatcatcca tcacgttgat catgacaatg atggtcggat 60
 ctactacaac tattttgtga caatgacgca gaaaggaaat atcccactag ggaacttggg 120
 gcactgccag atgagctttg gtcttagata agcactgaaa cttgggctaag tagaatgatc 180
 aatccagtgt gtagtgccat tcggcttcat atgccaaactt tagctgctga gactaagtcc 240
 gtcaaattgg gacgccgata cctacagtgg ttcatatgcg cggtagcaca acctttggga 300
 gaccaactaa tcagtcagca tgcaggatca cattggagat ccatcgtcgt aaacctcaca 360
 tgtacatggc ttatttgagg taggatagga atcactgttg tgtttcacat agtca 415

<210> 17248
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-C1
 <400> 17248

acctttttat tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 ttttttttta accaactcgg ctagagtcgc cttcctaagc gtttctaatt tacagttcca 120
 gtaaacacaa ctgaagccgc gtgtcttccg ttttattaac gattagatgc attattatat 180
 gcaagttaat gcaatataga tactgctttc cacgcacca attctccgaa taatatgcat 240
 tcacagtaaa aacaacaatc tccgagcaac aaaaaccttt aaaaacgtac tcatgaccgt 300
 gtcacttgta ggcgtggatg taatcttgaa agtataagtt cttcgggctt aagttggcaa 360
 gccaatggga ggcagcaaag cacagcacgg ggcg 394

<210> 17249
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-C10
 <400> 17249

atcgaataca atgcttccag tgctcgataa aatcgggttca acctgtccca aacacaatgc 60
 catcatgctg gcagttctaaa actgccaact cccagtccca aacgctcaag ctgtatcagg 120
 agcggtgact ttggggtaat cggagtgcca ctgaacctcc cactccgtcc aggacccatc 180
 gtagactggc acatcacgct ttccgatcct gtacagcccc agagcgagta tgcaagcaat 240
 cagcccggtt ccgcaagtca cgacgatggg tcgctgccat cgagattcct gcgtgctgaa 300
 acttccgccc cagctcgctg gcggggagga gaaggctccg tggcgcccgctctaaaatct 360
 cgggg 365

<210> 17250

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-C11

<400> 17250

aaggacgcgt ggggtgtttac ttaactgccg ttctgtcaaa gatacaagaa ggggggtggt 60
 tgccgctggc tttctcatca ctgtttctct gcataatgta cacatggaac tacggaagtg 120
 tactgaagta ccagagcgag atgcgcggca agatatccct ggacttcatt cttgatctgg 180
 gagccacact tggcaccgta agagttccag gcattggact cgtgtacaac gagctggtcc 240
 agggaatccc atcgatcttt ggccagctat tagtcacact tccagcgatg cactctacaa 300
 ttgtctttgt ttgcataaag tatgttctctg tcccttatgt cctctctgaa gaaaggttct 360
 tgttccgaag ggttgggcac aacgactacc acatgt 396

<210> 17251

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-C2

<400> 17251

aggttctgag ttcgtgggcg agaggggaaga gatggcggcg tcggacgttg agtaccgttg 60
 cttegttggc ggctcgcct gggccaccga cgaccactcc ctcaacaacg ccttcagcac 120
 ctacggcgag gtcctcgagt cgaagatcat cctggatcgg gagacgcaga ggtcccgcgg 180

cttcggcttc gtcaccttct ccacggagga cgcgatgcgc agcgccatcg aaggcatgaa 240
 cggcaatgag ctgcacgggc gcaacatcac cgttaacgag ggccagtcgc gctgcggacg 300
 tggatgccgc ggtggcggat acggtggcgg gcgccgtgat ggaggcggct acggcgggtg 360
 cggatggatgc tacggcgggtg gtcgttgagg ctacggcggc ggtgggggat acggtgg 417

<210> 17252

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-C4

<400> 17252

gcggcagctt cgacccctc ggccctggccg acgaccccgga ggcccttcgcc gagctcaagg 60
 tgaaggagct caagaacggc cgcctcgcca tgttttccat gttcggcttc ttcgtccagg 120
 ccacgtcac cggcaagggc ccgctcgaga acctcgctga ccacatcgct gaccagtc 180
 acaacaacgc atgggcctac gccaccaact tcgtccccgg caactaagct caacggctat 240
 gctatgcaac ttcattgtct ttcggatcgg agagggtgta cgtacgtgga ttgattgatg 300
 ctgcgagatg catgtgtgtc ttttgtttca cgttgcatg cataggcaag tcgagatgat 360
 gagttggcgt tgtacactaa gatgaaccat gtttgtgcaa tagtggtggt ttttgttt 418

<210> 17253

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-C5

<400> 17253

aacacatgtc cgaccacgcg tccggtttga catagtttgt cagtgcaccta ttcctggttg 60
 gactgttcta acaacagtat aaccagattg ctacaaacac cttggcgcca gtggctcttc 120
 tgacacatgc agtctgcaat gtgtagaaac gtgttcttgt catcagattc tcaatcattt 180
 gcttttggca acagacttaa catacattgt ggcattggca cctcgattgt cataactgat 240
 gtcgctacgt cctccttaca ttaacgctaa gattgacgac gacacaagga acaagagcgc 300
 attactgctg tgaatacaaa tctcgagacc ttccatggac agaatatcgt ctactatcac 360

gacctacgtc tatagcttgt attgttctca ccttgaatca gtcag

405

<210> 17254

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-C6

<400> 17254

gatgaacatc tgcctaaagc tcccacagct cgggtttttcc tcttactggg atgggtcttc 60
atcatcacag gagtaatact gcttgtagt tcaacccgat tgattgcgcg tctacctagg 120
tctgttcaga agtatttgaa gagcaacata gagcgcaccc acagcatcag gaggcctggg 180
tcagcacgag ggaaggatcc catcccaaca acaacgatcc atacgtcgtc actacacttg 240
cttgcttctc caacaaagga gaaggcctag aaaaatgttg gcactagagc aacttcgttt 300
gggcacctca cgtttgccat gttattgatt gattgaatgg ttccgtgaac gtagtctaga 360
gtagcatctt aaaagcttgg gttgggttatt caccatactg ccctttatag gtctaaca 418

<210> 17255

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-C7

<400> 17255

ggttccgtcc ccgatccgat ccgccgagtg cacaccacct ttccccactc cgatcgaatc 60
gatggccgcc gagggcgaga agaagatgat aaccctcaaa agctccgatg gcgaggagtt 120
cgagggtgaa gaggcggtgg cgatggagtc gcagaccatc cgccacatga tcgacgatga 180
ctgcgccgac aacggcatca ctcgctctaa cgtcaactcc aagatcctat ccaacgtaat 240
cgagtactgc atcacgcacg tacatgccgc cgcagccgca gccgccgcct ctaatgccgg 300
ttccgacgac gtgggtgccc cctccgcaa cagcaccgcc gcctccggtg aagacctcag 360
gaactgggat gctgacttcg tcaaggtcga ccaggccacg cttttcgacc tcatcttggg 420

<210> 17256

<211> 417

<212> DNA

<213> Zea mays
<223> Clone ID: LIB84-004-Q1-E1-C8
<400> 17256

cccacgcgtc cgcggacgcg tgggcgctct caaggtggag gtcctcgtgg tcattggcca 60
tatctgctgc ggtggcatca gggcgctcct ctccctccag gacggcgac ctgacacctt 120
ccacttcgtc gaggactggg ttaagatcgg cttcattgcc aagatgaagg taaagaatga 180
gcacgcctcg gtgccgttcg atgaccagtg ctccattctc gagaggagg cctgaacgt 240
gtccctggag aacctcatga cctacccctt cgtcaaggaa tggcttgac atgggaccct 300
caagctgac tgccggccact acgactttgt ctcaggagag ttcctcacat ggaacacgtg 360
aaatgctacg gctaaggcag ttctaaccgc ccgcgcactc ctgcattatc ataaata 417

<210> 17257
<211> 360
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-004-Q1-E1-C9
<400> 17257

accacgcgt ccgcccacgc gtccgcgcag aaccgcgatt tctccttgg ctgcatcgcc 60
ctgtatgtgg tgctgaatgt ggtgctgctg atccttagct acaccattga gaaggatgcc 120
atcctattca cgcaccctcc tatgggttct ttcagcaaca ctggtctcac tatttctct 180
aaattaccaa gattctcgga catgtacact ctcaaatat caactgcgga tccacagtca 240
atctctgcaa acaagccagt tcatttcact aagagcgtca caaactgggt tacaatggaa 300
tgagttcttg tggagggcct gttctggtag gatgtcgca agctgattga tgactacaac 360

<210> 17258
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-004-Q1-E1-D1
<400> 17258

aaacacgtcg aagtcgtcgt agttttacgt gtcgccgtcc gtcccgctgc ccatggcacg 60

cagcaacgcc ttgatgtggt tgttgcttct cgcgctctcg tgctggtcgt ggtgcggcgc 120
 cgtcacggcg cggccgaccc cgagcaccag caccagcacc accacagccg gcggcggcctt 180
 catcaggtcg tgggtgtgcgg ggacggacta cccggccctg tgcaacgcga cgctggcccc 240
 gtacgcggcg gaggtcgggg ccagccccgc gcgcctgtcg ctggcggcgc tgacggtcac 300
 gctggacggc gcgcggaggg cgacggccgc gatgaaggcg atggcggcgg gcggcgcgag 360
 cagccaccac ctctgtcccc tggcggccga ggcggccgcg gactgcgtgg gcatgctcga 420
 ggac 424

<210> 17259

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D11

<400> 17259

aaggacgcgt gggcggacgc gtgggcgacc ggcgactttg gccccggccc ccgggctagg 60
 aagcgagttc accggtggat ccgcgcgtgg ccctccctgt tgcttgcggg cgctggccgt 120
 tggccaggtc gcccagccg gccaccccc gcccgcgcac cctgctgact tgggcttgct 180
 gtatagcacg gaccagatca agggtcgccc tcgaccacat ttgaggcttg gccatgcctt 240
 taaatataga tattgatctg ttcaagctgg atattgatga gctgatagct gattattcca 300
 atgagaactg tacgtcactc tttgaattca aacgagtatg gatgggcaag aaattttcgt 360
 atagctatga acgcagacct aagacagact cggg 394

<210> 17260

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D12

<400> 17260

tacacacacg ttctggcatc gagcaggagc acttcaagag ggaggagaag gagcataagc 60
 acaacgagcg cctcggcgag gtgggcgccc tcgcggggcg cgcctttgct ctgtacgagg 120
 ggcaccgtgc gaagaaggac ccggcgaacg cgcagaggca caagatcgag gccggcgtgg 180

caacggcggc ggcgctgggc gccggcggct acgcgtacca cgagcaccgc gagcagaacg 240
 aggccacta cgagatcagg cagcaggagc acagggtgcc gcacgggcac gggcacgggc 300
 acggctactc ctactactgc gactgaaacg actgatcatc ccatcgatcg agatatgcat 360
 gcagaactcg atatatatac ggcccctaac gccgtacacg tgcgtgcgtg taagttcata 420
 agagcaaacg 430

<210> 17261

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D2

<400> 17261

ggagcagcag ctgggttcat ggccggcgag ggatcctcgt cgaggagcac ttcccaggcc 60
 gagaacgaga gccagtccg ggacctgatg aacacgctcg cagcttccgg gagcggagct 120
 gctggcacag cgttcagcgg gggtttcccg ggcattggacg acagcaagct gagcacgaga 180
 gacttctcgt gcgtcggcgg cggcgtcctg cggagcatgg gtggcgcggc agggctgccg 240
 ctgcccgcag gtgccgcggg cattggcatg ggctcattgg acacagaaat gaagtaggtg 300
 aatcgaaatc cgaaacgagc attattatgc tccactcttg ggctcttgca ttgcatgcaa 360
 ggtaagtagt agcagcctaa gcaaacgacc tatggaaaga tgagaccatt ttcgcgcaaa 420
 at 422

<210> 17262

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D3

<400> 17262

accacgcac cgcccacgcg tccgtggctt gggaaccgtc aaattcgttg caattgggca 60
 acgaaaggtg ctaatgctgg tgaagagaaa cagattcttg acactaaggt tgacctgtca 120
 aatggttcat cagaatctgg aaaagagaat ccaaataaat atggctctga aaataaccct 180
 cagtttacta ctgtttatgt tggcaatctt cctcacgagg ctaccatgaa tgatgtgcac 240

ctgtttttcc attcactggg ggctgggttca attgaggaag tccgtgtaac tcgtgataaa 300
 ggctttggct ttgtgaggta cagcaccatc gaggaggctg cattggcaat tcagatgggt 360
 aatggccaac ttattggcgg gaggcagata aagtgttctt ggggaagcaa gccgactcca 420
 c 421

<210> 17263
 <211> 356
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-D5
 <400> 17263

accacgcgtc cggggacctc accaaggagg tctgtggaat tggcgatgat cacggcgggg 60
 aggggatgga cgtctgtaca tatgcaacga ccacggaagg agcgaggctt ggtgatcagt 120
 accacacgag catagctcca tgtgcggagc tgaaagacaa ggggatttgt ttgttcccct 180
 tttccgtgct gctgcactac catggggccaa actgaggaaa aaaacaatat gcgaatgaac 240
 agcatatgta gtgtttcgca acttacactc tatgcgcgca tgcattgtgt gtatgaacga 300
 atgcaagaag aatgtgatac tgtggataga tatatgtttt tccttaatga ggatat 356

<210> 17264
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-D7
 <400> 17264

acacagttca caaagggtgg ggcgaaaaca tccatttggt cggtatgggt taccactcat 60
 ttccttgaca gtgtttggtg cagtgggact tgctcacctt atacagggca gcaaagacgt 120
 gaccaaggta aaggaggata tggaatggga gggtgtacag acaacacaag ctctaagtcg 180
 aacacggcca gtggaacgag cctataagcc taagaaactc tctctagagg acgaactgaa 240
 agctttgcac cagaagggtg acataaacag ctacgactac aagcccatcc caagaccag 300
 tgagaaataa gtgtagatga agaccgtttg ctagtgcgtc gattggatgt ttgtatcttg 360
 atacttacgt cgtcacgtct tgtcacaagt tttgtatgaa tgtaccgagc tgattcaag 419

<210> 17265
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D8

<400> 17265

caaattttga ggcttgtcag ttctgaccta ttggacataa gcaagagaaa tgcattgtgtt 60
 gtgtgtttga cagtgtcttt gaaaatcaca cctccagaaa tttgtgattt cgaagcgtcg 120
 aagggaacagg tccagaaaaa aggggagatt gttaaaattc cattacttgg gaggaccgc 180
 acgaactatg gtaatgttgc catgttgctc caactatgtt ctaaagattc catggcgtgg 240
 ctaagcaaaa ctgctgcaca aaaaggaaac agaatttgac tggacgtctg aatatcttcc 300
 cttcagtctg agctccagac cagagtgcaa aaagaaacat tgaaccaatg gaaaaatgaa 360
 taaaagaaca atcagtaact acagtgcatt tctgaagatt ctcatgggag tgggcac 418

<210> 17266
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D9

<400> 17266

tctcgggtcg acgcatacgt ccgagatgat gcgccacacg cgtcgagcac tcttaactca 60
 tgggacacga tcgccatggc cgccacatcg accgccgccg ccgtactgtg ccgaccgtca 120
 gtggccggggc tccgccaggc gccgactccc gaacggacgc gcgtgtcgat ccgcgcggca 180
 cctgcaccgg caccggcggtc cgtggcgga caccgggagc tcagcacggc actagcaatc 240
 atccagagac aaggcgtgtc gctcttcctg tgccgatgag tcgcacttca acatccagtc 300
 ggagaacatg gcgaagcagg tgcccgcgca caacggcagg acacacgtcg agtccgatga 360
 cgagcgcgcc aaggagttag ccgcactgca caagtccaac g 401

<210> 17267
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E10

<400> 17267

ggaaaaatgg cactctgggtt ggagccattc caaaagaaat taaaggccca ctatataccta 60
ccattgcagt tcatagttac ggtgaagagt aagcttttac ttttttagtt gtttaggcga 120
catagaattg ctatatgggtg taagttgtga ttcaccccag gtcttccaac cttagttgca 180
gaaacatctg gcagacttgg ataataatac ctgctccaaa atgcaattta ctcatttggt 240
tttttgctg ttatatgatg gttttccttt ctagcacgac atagaaagtc acaagttgtg 300
cacctcaata gtaacacaag ttaatcactc cctgtttaat tcttagacat aactttagtt 360
gtaggttctc 370

<210> 17268

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E11

<400> 17268

agagggcgac tacgaccaca gcgtcgcgga catcatcagc aacgcgtcct gcacgaccaa 60
ctgcctcgcg ccattcgta agatcttgga cgaggagttc ggaattgtca aggggaccat 120
gacgacgacg cactcgtaca ccggcgacca gaggtgtctg gacgcgtccc accgcgacct 180
ccggcgggcc cgcgcggcgg cgctgaacat cgtgccgacg agcacgggcg ccgccaaggc 240
cgtggcgctg gtgctgccgc agctgaaggg gaagctgaac ggcacgcgc tgcggtgcc 300
gaccccgaaac gtgtccgtgg tggacctggt gatcaacacc gtgaagactg gcatcacggc 360
cgacgacgtg aacgctgggt tccgcaaggc cgccgcgggc ccgctgcaag gcat 414

<210> 17269

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E12

<400> 17269

cacctccgtt cctccctcac gccggcggcc tgtatccctc tccccatggc tgctggactg 60

ggagcgcgcc cctccgccac ctctgaggcc ggaaggttcc ggcctctcgc tgccctctc 120
 cgccccgtcc gctccggaaa attcgtagtgc cctaagcgat gcttcactgt gtcaagtagg 180
 cttgcatggg tggaagatga gcttatggag ataaaaaagt cacaagagca aagttcagta 240
 aaatcagaga aaagaccacc tttagggcgt ggaaaggtct cccacaact tcctgtacca 300
 gggcacattc caagaccatc ttatgttggg tcaaaaggat tgccacaact atgcaagggc 360
 caattacacg atgctcaagg aattgctg 388

<210> 17270

<211> 153

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E2

<400> 17270

tgctattcgc tcgctcaatg gcagcttccc ttctcattac ctcaaggccc atgaccaatt 60
 ccacactaac caccatgac aagccccaca tgttgggagc attctgcgca ccggatgata 120
 atcagcagca actcatctcg gaggccgctt tgc 153

<210> 17271

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E3

<400> 17271

aatggatgtg gctaaaaagg cattgatcct ggctaggctt cttgggcaac agataagcat 60
 ggagagtatc aacgtatgcc tgtctgttga gagtttatat cctagtgaat taggacctga 120
 tgcagtgtcc acaaaggact tccttgaaag tggtttagtg caacttgaca agagcatgga 180
 agaaagaatc agagcagcat ctctgagagg aaacgttctt cgctacgtct gtgagattga 240
 aagcgcaggg tgccaagtag gccttaaaga gctcccaaag gattctgcgc tgggtacatt 300
 gaggggaagt gacaatgtgg tcgagatata cagcagatgt taccagagct cccctctggt 360
 gatccagggc gcaggagctg gcaacgacac cactgccgcc ggcgtccttg ctgacataat 420
 cgac 424

<210> 17272
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E4

<400> 17272

ggcagattgt gaagaacaac aactccttcc tggatgaagca gtttggcaac ggcaatgcca 60
aggtgcagtt caccaaggag cccaacaacc tctacaagtt tacactccta caagtactct 120
ggcttagcaa acaagaaaac tgtaacgata cagccagctg ctggaaagga ctgggctgtg 180
gtcctctcta ctaccacgac caagaagcag agcacacccg cgaagctcag ccacaagtct 240
gtgatgcgca aggagttccg cacgatggcc aatgctgtga aaaaccaggt tggcgacaac 300
tattacaggc ctgatctgac caagtcggcc cttggtaggc tgagctctgt gtaacgcagc 360
ctccatgttg ccaagtctgg tgtcaagacc aagaacaggc agcctacgca cta 413

<210> 17273
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E5

<400> 17273

aagtctgtac cctgtacgac gtgactcgaa aaatgaacct atggatgtac atgcaacagt 60
cctccagctg ttgtgttcat ttgttttgtt caatatgggc catggccacc aaaacaagat 120
ctgaattgta actgttatta accttc 146

<210> 17274
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E6

<400> 17274

tcgggtccac gcatacgtcc gcttcggtga tgaataacgg ttgccctttg gatgggtgcgg 60
ttcgtatcgt acgtttcggc ggcgatactg tgtatccatg gtgcgatgca ttccccgcca 120

cgccatcagc cacgtcaggg atgaggatag gagctactac gctcacatcg cgggttcgca 180
ccacttcgcc agcggtagca tcgatgcact gatgccggag ctggcgcggg ccaccaccag 240
cactgacacc ctcttccact cgaccctgat ccaggtacga cagtctaact tgtgctcgga 300
tggtctcaga ctagctatcg gagaccaagg aggattcagg gatgtcgacc atcatggtac 360
tggagcgctg gtataactgc tgggaggttt catggcagcc tgtctgcacc tgcaccgacg 420
ctcattg 427

<210> 17275

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E7

<400> 17275

tggggtccac gcatacgtcc gataacatcc gctcgagtgg gcgtgcataa gccgatataa 60
tgcactctgc acggcacatg gatgggctga tctccactga gatcacagga ttcattggtg 120
gtggcctgct gctcagctcc agcatctctg ctcccaaagt cgacggcttc atcgcttcct 180
cccaaagaag gtcactaggg atatgtaaga ggtgcgggtga ccttcggatt gtaccatgtc 240
cgcagtgcga tggaacagga tcagctcggc gctgcgggat gctcactttg ggcggtgcagg 300
atgatctcga cgagtctcat gtagccgaag ccactactga taatctgggt ccttgcacaa 360
agtgcaggtc g 371

<210> 17276

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E9

<400> 17276

gacacaacac aggtacttaa aatttaagga gatatcattg tcgattacac acgataattt 60
gtctgctaaa aaatatagga aacagtactt gtagatgata aaaaaaaaag ccaaaacttg 120
cagcagtttg acaaaaacag cagctctagt cgtcgaagag gctgaagccc atttcctcgt 180
ccgactcctc ttcaggctcc gcagccttct cttcttcctt gggagcagct gcagcgccag 240

agtccccagc agcaaccggg gcggaacag caaacttgct tgggtccttg aggtactcct 300
 tgatcttgtc agcatgtggg tacgagtagt ctgtctcgac agcaacagca agcacattct 360
 tgctagttct aagatcgga 380

<210> 17277
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-F10
 <400> 17277

acggacgcgt gggcgaaaga gaagctctcg gcgatcgccg accttggcgt cggtatcgag 60
 aacaagatag ctctcaagtt cgacaotgtg ttttggcccg acgttgaagt gataggtagg 120
 gtggccccga cgtcaaacgc ctgtgggtac tttctcaacc ttaacaaagc cacaggaaac 180
 ccggtcctgg tgtgcatggt ggccggaagg ttccgctacg agatcgagaa gctgtcggac 240
 gaagagtccg tgaacttcgt gatgtcccag ctcaogaaca tgctgccgca ggcaactgac 300
 ccggttcagt atctggtctc gcgctggggg agtgacccca actcacttg 349

<210> 17278
 <211> 279
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-F11
 <400> 17278

aataggtcga cgggataggc tttgtcgaaa ccctcttcaa cagtggaggt attgatggtg 60
 atcggcgacc gtgagcttcc atgtgattgc gttctgacac gtgagacttt tattatgact 120
 atgtatgaga tattgtcttt tagtagtact ggatgacgat atgtgtgaga cgtttgtgat 180
 gtgagtgcg acactaagga tgagactttt gtgatgtaat tgatgagact atcggtttat 240
 atattgttat gtgatttgtt gtgagatggt ttatgcgag 279

<210> 17279
 <211> 99
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-F12

<400> 17279

atcgggtatg ccgtaccaac tcatcatctg ccgttgatgt cccaacaga cgtatcaat 60

tccccgccgc cgtgcccac tctagatccg aaccgacaa 99

<210> 17280

<211> 97

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-F2

<400> 17280

gtcgacacat ccgtccgaac agatacgtat aaggattcgg ccgttaacga acaggatgtg 60

aacaaggata tcatggcttc atcaaaagta tgcctca 97

<210> 17281

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-F3

<400> 17281

gatatccggt agccgacatt cattgcgccc ccatgatggg cccgacgttt ggcgccatga 60

tgatctccgg ccacaatgct gcgcaacttg cgctcaacgc cctgtcgcat gcccaaaggt 120

ctcgtccgga ctatgtcgcc gccattgcgc aaagagttga tgattgcgta caatgacgac 180

gacgtcttgg acgcctgatt gcagcatgca gagacgacga tcaaccccat caccatctta 240

acgtaaatgc cttgttcttc aatgatgaat caatcgaatt cccttgcgtt aacattaaca 300

ttgttattgt tactactaat tt 322

<210> 17282

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-F4

<400> 17282

ctccgctcac gtgccacact tctcatggg cctcatcctt ggcgcgggtg tcatcgggat 60
catgatgttg acctctgggt tcttccgact gcttccggag ctcccaaaga tcttctggcg 120
gtatccagtg tctacattg tcatgggtc atgggggttg aaggcggggt acaataacga 180
cttgatcggg ctggagttcg agccgatgat gcgaatgcag ccgaaactga ccggcgagta 240
catcatcacc gagatgatgg ggctgagcct gaaccactcc aagtg 285

<210> 17283
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-F5

<400> 17283

aagcaggcat gaatctcatc catcatcgag agtgtccaga agtgcagcac atatcgagga 60
tattaactcg agaggagggtg aagcatcccg gaatggagat cctgatgctt tggcaacaat 120
gaacgcaact gcagaagctc ttgaagcaaa agaaaagcaa aagccatcgt ttgaattgtc 180
tggaaagctt gctgaggaga ccaacagagt tgcagggtga aatctattat attcagaacc 240
cccagaggct cgaaagtcag agattagatg gaggtcttat gtatttaaag atggtgaacc 300
actgaatgaa cactgtatg ttcacggat gacctgctac ctttttggca gagaaaggaa 360
agttgcagat gtcaccacag atcatccctc ctgcagcaag caacatgcag ttcttcaata 420
c 421

<210> 17284
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-F7

<400> 17284

cggtgccag catagctccg accacatgtc cgcaaatttc cactggtaca attgtcaaag 60
gttaatecta gctgtatgga tcgcatcag cggttagcct ttgggattaa cttatacaat 120
gctttgataa tgcatgcgta ttggcatcac ggagtacctc gaaatgacat caagcttttt 180
tctctgatgc aaaaggcttg ttacacagtt ggcggccagt ccttcagcgc agcagaaata 240

gagtttgtga ttcgaaagat gaagactcca gttcatcgga cccaactttc tttgatgtcg 300
 actctgaata agttcaagat tactgacgat cacaagaagt actcaatcga tgaattcgaa 360
 ccccttcttt tgttcggact tagctgtgga atgttctctt ctctgctgt acacatattc 420
 tccgctgc 428

<210> 17285

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-F8

<400> 17285

gaagcggctc aatgactaga tccagggagg ctactatgac ggcgtgtgca gcgacgacac 60
 cctccgatca cgccagtcag tgaagtccgc ctttgaaatc caataactcg gaacaatgat 120
 gatatgacga aataggccgt gttttcttgg acaatgatgt taagttcggc aacgttttcc 180
 tttctattat ttttttcaa ctgcgtggtc tatgtgtata ttgccaaagg catgcgtgag 240
 ccatgcgccc ggtgctgtgc tagggcgac agactatcgg atgggtgaaa caccggaaat 300
 aagagcgtgc cgctgtgtgt ctctttgac gaacaagcct ggcggtcgag agagctacaa 360
 ggtgaccaaa catttcaggg agctgcttca aa 392

<210> 17286

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G1

<400> 17286

ctcgagtcac tcaagctcaa agcgaagccc ggcgctcgat gttcaacctc atctccgacg 60
 actggggcgg gtctgcgtcc ccttggatcc gacagctctc ggccaccttc cacttccctca 120
 agaagctcca cctgcgcagg atgatagtat ccaacgaaga tatcaacatc cttgtgcgtg 180
 ccaaggcgca catgctcgtc acgctgaagc tcgaccgctg gtcgggcttc tccactccct 240
 cccatcgcac tcgtcgcgcg ttcccgcagg aaactggaaa cacttttccct ggaagaaagc 300
 aaatttgatg agaaagaaaa tgatgagtgg atccgtagc ttgccacgaa ca 352

<210> 17287

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G10

<400> 17287

cgagacgcgtg ggcggacgcg tggggccgccc ccgagggcca gtaagacgga tccgatctcc 60
cgacctgatg cgtgtctgct gatgtcgggg agtttaccag gactgtgccg ttcttgattt 120
ctgagagctt atcttctagt acacctcgtg ttgttctctt cgtcacggcg ccggtgcgtg 180
tgcgctgaag ctgcctgcca ttgccattgc cgctgttttt aattaagcac acactctaga 240
tggttatgccc gcatgctatg ttctgattct caaagttgat aaatgatggc tggatgctgg 300
ttttcgtgct cgaagcctgc tgcttcttcc atggaaaaaa agacctgccc gtgttgacgc 360
gttgttgt 368

<210> 17288

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G11

<400> 17288

ggccgcgccc tggttctggg acacttcctt ccacgaaaaa aagcagcagc agcagcataa 60
gctctagcta cctctactac cgacctggat ccaactcaacc cgctacgcta agctcccctt 120
tcccgttcga caagagaaga gaagaggta ttcattccatc tgcgctgcag cctgcagaga 180
aggagaagga ggagacaggc gcttgacatg ggcaagtacg tggagctgct ggacatgggc 240
gtgcgcacgc ccgcgcgctt ccaactccac tgccgcgaga ccgcgcgcct ctactaccac 300
ccgcccgcgc gcggggccggc ggcccggggg acggccgcaa gggcgactcc gccaccgccc 360
ccgcccgcgc cgccgtgatg ctgaagcagc aggggcaca 399

<210> 17289

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G12

<400> 17289

cgcgcggggtc gacgcatccc tctacacgtg agtcgtgcta gagcggaaaa gcgtggacga 60
gcctgggggag ccgcccggcg tggtcctaag cgcagccaga tcgggggtggg tgcccgtggc 120
tccggggaag ctctgtcagc ttctccgtg acgagcagct gcgtgcggag tgggacatcc 180
tcagcaacgg agggccgatg caagagatgg gcaagatcgc caaggggcag gagcacggga 240
actcgggtg cctcctcaga gcgagtgcga tgagtgcga ccagagcagc atgctgatcc 300
tccaggagac ttgactgat gcatcaggct cgatggctgt gtatgcgcca gtggacatcc 360
cggggatgca gtcgtcatg aacggcgggg actcgacctt cgttgctctg ctgccgtctg 420
ggt 423

<210> 17290

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G2

<400> 17290

gctagcgctt atagcttgtc agccatggcc accgcccgcg cgtctagcct cctcaagtcc 60
tccttcgcgg gtcgccggt cccggccgcc acgcccacca caccggcgct cctcgtgggtg 120
gccaccggcc cgcgcgggcg cggcgcgggg cccatctgcg cgtccatgtc catgtcctcc 180
tccaaccgc cctacgagct gacgtccttc cggttcagcc ccatcaagga gtccatcgtg 240
tcccgcgaga tgaccgctc ctacatgacg gacatgatca cctacgccga caccgacgtc 300
gtcatcgtgg gcgccggctc cgcggggctg tctgcgcgt acgagctctc caaggacccc 360
gccgtgagca tcgccatcgt ggagcagtcg gtgtccccgg ggcggggcgc gtggctggg 419

<210> 17291

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G3

<400> 17291

aaatatatga cagacaaaca aactagtaca gaaaaaaaaa acccgagaga agcaaaagtc 60
 actttcgaag gtttagttac ggaagcccta cccaacggaa tgttccgcgt tcgcctagag 120
 aatgacacga tcatcctggg ctatatattca ggaaagatcc ggtctagtgc tatacgaata 180
 ctgatggggg ataggggtcaa aattgcaata agtcgttatg attccagcaa aggtcgtata 240
 atttatagac ttccccataa ggattcgaag cgtaccgcag actcgaagga tactgatgat 300
 ttgaaggata ccaaagattc agaggattag gtttttctgg ggtaataact tccaagtttc 360
 aaaatttagg tgcagagact tattttttcc aaaggaatag attcatagtt taagaaagga 420
 a 421

<210> 17292

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G4

<400> 17292

atcgtcgtcc acgcctcctc ggcaagggtg cgtacggcgt ggccctaagg ttcattctgc 60
 cgcctccctc aacctcttga ttccgcctcc ctcaacctct tgattccgcc tccctgaagg 120
 cataccagcg ggatcaagct attttgctgg ccaaccgaac ggtcaagccg acgatgacgc 180
 tcggatcggc ggcacacaag atcccgtggt aggttgcgca caccctcgtc gagatcgccg 240
 aggtcgcgcg ctacgcctac caccaccgcc ccggccgccc tgcaaccac gagggggacc 300
 cgactgcgcc gcccgcaagg gctgatatca gcgggggcac caacgatgga tccgcgcggc 360
 tgctggagga gaacgccatg ctccgcgcc gactcgcaa tgacctcgcg ctctcgcg 418

<210> 17293

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G5

<400> 17293

agcgtttcga gtacactgtt tgatcacaag gagcagtctg ctgccactaa gtttcaaatt 60
 gttgatcatg atggcctgaa atcatcatag tcacaaccac actttgcaat atcaaaatgg 120

tctttgcaag aagaatgtca ctccacctat gatctcagtg agagggattt tactgagcca 180
aagatgaggc atcgaggatc agttactacc ccagaaaagg gaaatcatga aagtgcaaac 240
accacaacac tgtctacagg tgctgatgct agcaatcatg ttcaaagagc gagatcaaaa 300
gcattatcag tctttggggg attggatatcc ccatgactaa gaaccgcca actttcattt 360
gaaacagcac ttgacttgaa tgtggagcta gcatattcaa tgcgaatat gttagctagt 420
t 421

<210> 17294

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G6

<400> 17294

cactcctctc gtccgcgctt gtttggtcgc gtcttctccc tgtagggaac tccgttacct 60
ggccccggct gtgcgtggcg tcagcacgcc ccgcgggcag gagggtgagg ctgctgagcg 120
tgaggtgcga gcaggagacc aagggcggtg gcgggctgga cgtgtggctg agccgcgggg 180
cgatgctggg ctctgctcga gcggtggccg tggagctgac caccgggaaa ggcgtgcttc 240
agaatgtggg attgaccgcg ccggtgccga cgctggcgct ggcgctcacc ggcgcggctc 300
gcgtctcac ggcttctc atcttccagt ccgggacgcc ggactgatgg gtgaattgtc 360
aaagctccca caaggacatg cataaagtct gtcagagtct tgtgctgtgt at 412

<210> 17295

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G7

<400> 17295

atacgtccga acttgcgact cgctcgctcg atgctagctt tcttctgagt aaacgcagcg 60
cctatggcca tagcaacgca tgcctctgca gccacgcgcg aactgctggc cgtggcatgt 120
gcgccagagg ggaacctccg ggacttaacc tcggagctcg tgcgtctgtc gtcacacctac 180
ttcgggcccg caccactctg cccgtccacc caggaagctg tggaggatcc aaaggggttt 240

ttggcccagc aactggaccc aagaatgcc

269

<210> 17296

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G8

<400> 17296

atcgggtgctc gccctcctcg tgggtgtctta ttgggtgggtc ttccagggac tggaaagaca 60
cttcttgcaa aagccgtagc aggagaagca gaagtcccat tcataagttg cgctgctagt 120
gaatttgttg agctatatgt aggcattggga gcagctcgag tacgtgacct atttgctaag 180
gccagaaagg aatcgccatc gattatTTTT atcgatgaga ttgatgccgt tgcaaaaagc 240
cgtgatagtc gatatcgcat tgtcagtaat gatgaacgtg agcagacatt aaaccaattg 300
ctcacggtag gacagtgcc tttcatatTT cttgagcatt caccagatta gcttcatcgc 360
aagttggggac cgaattaaag cttatacttg tatttttagt ggctgataat tgattttt 417

<210> 17297

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H1

<400> 17297

aacacgcgtc cgcccacgcg tccgcccacg cgtccgcccc cgcgtccgcc cacgcgtccg 60

<210> 17298

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H10

<400> 17298

cacaagcctc taaacatgcg tectactaac gcgtggggct ggaggccaag ctggacgagg 60
ggcgcagccg tgtggaggcc gagctcgtag aggcgctcgc caacctcgag ggcgagaagg 120
aggaggctgt taacgcgctc gacgcccaga tcgcctcgct cagtgatgag atcgtcaaga 180

aggtgctccc atccgcgtga tgaaccaga ccggccctgc cttatcctag gactatagtt 240
 acatgaacat cataaattaa tgataatatt gaagaaattg ggcgatgact ccgacactgt 300
 actcatgaaa gattattgga tgggttgtgt ccaccgcctg tgttgggtgt ggattgttgt 360
 ag 362

<210> 17299

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H11

<400> 17299

gaagaaaaga agagactgaa cgccgcgagt tcacgtgacg atggagaacg ccgcctccgc 60
 catcgctaag ccgtcgctgt ccaagaagcc ctccgcgtcg ttccgcctcc ggaacggcag 120
 cctcaacgca ctgcgcctgc gccgcgtgtt cgacctcttc gaccgcaacg gcgacggcga 180
 gatcagcctc gacgagatgg cctcggcgct cgacgcgctc ggccctcggcg ccgaccgctc 240
 cggcctggag gccgcggttg gcgggtacat cccggccggc gccgcggggc tccgcttcga 300
 cgacttcgag tccttcgacc gcgcgctcgg ggacgcgctg ttccggcccc tgccggtggc 360
 tg 362

<210> 17300

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H2

<400> 17300

gaaacttcca aattggatgc agttgccttg agccgtgcac ttgagggcaa actgaattct 60
 ccattatggc acgttcgcat gaaggctatt tgtgtgttaa aagccattgt aaggaaacag 120
 gatactgac cttactctat catcgcttca tatttcactg agaacacagc ttctgttgtt 180
 aaatgctctg agctgacaca ggtttctctc agatagaaag cctcaaaggc cttgaatatg 240
 ctgattgggg aacaacctac cggaaccgca gcaacataag ctgcgatgcc cacacctgtt 300
 cagatgcctg atttgatcca tacaggtgat caagatgac tggcaacaag ttctggacat 360

gcatgcattg aacagaattc tgggaacagt gcatatgttt cctcagttga tg 412

<210> 17301

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H3

<400> 17301

atcgggtgctg ggcggtagtg ccaatttgat gttgtcaatc accctccgca ttgtctcagg 60
tgcggctgag gttgttaatt tcctgtcaca actgatgggtg ttcttgtggg tgctgtatta 120
ccttattact gtggaaggat gtggagctac agagcaaatc attgatcttt tgccagtgtc 180
aaaacaagta aaggaccgct gtgttgacgt catggatcat gccatcagta atgtattgtt 240
ggccactgcc aagattgcc aattccatgg ggggctgaca tggatagtgt tcaagttctt 300
caaagtgcac ttgtgtaca catcaactgt gcttgcattc ataagtgcac ttgtgccaat 360
acttcaattt tggctgtcct cgatat 386

<210> 17302

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H4

<400> 17302

gtcacagaac actccgagga tcagcttgag ttggtcttaa aagcctgcga aaggatgaat 60
gcgcactctga cagctgcagt tgtctcaaac gaccgctat tcctgcagga tgtacctggg 120
acatccgtta acgggacatc ctacgccgga attcgagcga cgaccacggg cgctccacag 180
aaccactggg ttggcacggc cggatgattc cgaggcgcac ggatcgggac tccggaagcc 240
atcaaacttg tctggacctg ccacaaggaa gtcatatatg acatcggggc cgttgccaac 300
agctggg 307

<210> 17303

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H5

<400> 17303

aatccgccct ttcggcctct ccacactcat tgtcggcttc gaccctaca ccgacaagcc 60
agcgtgtac cagaccgatc cttctggtac cttctctgct tggaaggcga atgccacggg 120
aaggaaactcc aactctatgc gtgagtttct ggagaagaac tacaaggaga cctccggcaa 180
ggagaccatc aagcttgcta ttcgtgcact tctagagggt gttgaaagt gtgggaagaa 240
catcgagggt gcagtgatga caaagaagga tggctctcgg gaacttgagg aagctgagat 300
tgatgaatat gttgctgaga tagaggcaga gaacgctgca gctgaggctg caaagaaggg 360
tggtcctagg gacacctagt cc 382

<210> 17304

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H6

<400> 17304

gctcttcttc ctcgcgaaac gacgcggagg aggttgcccg tcaggccacc gccgcgcccg 60
cccgcccgcc ggagaccggg tccgcagcca acgcgtgacg tagggaggac acgcagccat 120
ggccacttcc tctcgtcgc tcacaacgct ccaactccgc ttctctctc ccacccttc 180
ctcgccctac atggcggcgc tgccccgacg gcgaagggcc ggagcgcggg accctcgcat 240
ccggggcatt gacctcgacc agagcacaat tgtggccatt tcggtgggcg tcgtcagcat 300
cgccgtggga ataggtgtcc ctgtgttcta cgagactcaa atcgacaatg ccgccaagag 360
ggataatata cagccatgtt tcccct 386

<210> 17305

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H7

<400> 17305

accagcttct cctcgggctc gcccaagctc cttcttctc ctccaactcg gcgcctggat 60

ctctctctc cctccagctc tctccagccg cgcgtctccc tgctcgctgc gttcttcttc 120
ctccctgggt cctgctcgcc caacgacgcc atcgcccgga tctcctctgc tctctctgct 180
cgcttggcc cgccgtgctc tgctcgtaa tgccgctga gcggtgagct ctctgccgcg 240
gttcttcc tcttccgctc cagccttctc tttctctct tctctagccc tgttcggccc 300
ccagcttggga tcttcttcc gctcggtcgt ctgcctctcg cgctcggtc cctggagtgg 360
atttctcgc cgtggagctc agcttgtgta ttgtccgccc 400

<210> 17306

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H8

<400> 17306

accacgcttc cgcccaagcg tctgtggtgc gcaagccggc gcacactggt catggacgag 60
ctgggctggg cgtacgacaa cgccaatgac tacgtggtca tcaagcacgc cgcgctcttc 120
acgtccacgg tcatgagcct gtcctggtg cgcccaaaag tcaagctggt catcacagt 180
gccgtggacg acctcagcgt caggggaggg cgcgtctgcc gcgtcatcag caactgggcg 240
ctcgtgtcga tgatccacga cacgcagtcc tgcattggacc ccaacgtcat cggcgccaga 300
gtcgtggtca gtcctgctg ccacgatcga ccttccgct ccaccgga 348

<210> 17307

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A1

<400> 17307

aagacgcgtg gggaggacga cgacacatct atattgagt agcttatcgc cctcgagag 60
gcaggattac atgaagaaga ggaggacgac acgtcaaggt tgagttagct catcgacta 120
gctgaggcag gattacgtgc tcaagaggaa gaggatgagt ttatgtcaca ggccgccga 180
gaggtagagg cagcttatta caagaagaag tctgatgagg ctgacgctga ggatgagcta 240
tttcccaag ctgcagatga agcagaagcc aattattaca aaagaactgg tgacaagtgt 300

gatgcaggac aatgcagcaa gtggaatgag gttgttgttg aggattgcgc gacggatgac 360
tccgaagatg agttactcat agattgtgat tcagactgga gaattgaaga tttga 415

<210> 17308

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A10

<400> 17308

atcactgcac gttgccggt gccccgcgg ccccgccag tccatcccct cgctcgctcc 60
ccaactccag caggcagatc agatacatcc atccattcgc ggaccggaag gaaaggaagg 120
gttgaactat gagcgccgtg gcggtttcgt cgctcgctgaa cccggacgcg ccgctcttca 180
tccccggcgc gctgctgcag gtggaggact tctcgccgca gtggtgggac ctcatcacca 240
ccactgectg gttccgcgac cactgggtccc gcgagcgcgc ccacctggac gagatggccg 300
agcagatcga cgccgccggc ctctccccg acgacgagga cctcttctac gacgaccagc 360
tcgagcaggg ccccgctgcc gccgccctta agacaga 397

<210> 17309

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A11

<400> 17309

cagttagagg actttgccaa tcacaatgcc tttgatttgc ttgaaaaata tagcaagagc 60
catcttgttt tcaatgatga tatccagggc acagcatcag tggtccttgc aggtttgtta 120
gcagcactca agatgggttg tgggaccctg gcagagcaga cgtatttgtt ccttggtgct 180
ggggaagctg gaactggtat tgcagaactt attgctcttg agatttcgaa acagacgaat 240
gtccaattg aagagtgccg caagaagggt tggctggtgg actcaaaagg tttgattgtt 300
gactctcgta aaggctccct tcagccattc aagaaacctt gggcgcatga gcacgagccc 360
ttgaaaacct tgtatgatgc tgttcagtcc atcaaaccta cagttctgat cgggacatct 420
ggag 424

<210> 17310

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A12

<400> 17310

gtccgaccag gacgtacgta cgtacgtaga tcgatccatc gatcgctagc tagctgacga 60
ccatggcgctc cctctcctct ggcgccatca ccgcccttc cttcacgggc gcgcccgtc 120
gcgcagtggt cagcaagagg tccttcaccg tgcgtgcctc tctccgcaag gccactgcca 180
ccgccgccgt ggccgttgcc gccagcgtec tgcttgccgg cggcggcgcc atggcccagg 240
aagtggtgct gggcgcaggc gacggcgggc tcgtcttcga gccagccag ttcacgtca 300
aagccggtga caccatcatc ttcacgaaca acgcccggtc tcccgcacag cgtcgtgttc 360
gacgaagacg atgtgccgag cggcgtcgac gcgtccaaga tctcgagga ggagtacctc 420
cacgcgccag gcgag 435

<210> 17311

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A2

<400> 17311

aggacacgtg ggcggacgcg tggggatgga ttcacatttg gagggaaact actcaacaga 60
tgaggcaacc acattggttg acctggcctc ccagtgccta cagtatgagc ctagggatcg 120
ggccaacact aaaaagctgg tttccgtact cgagcccttg caaataaaat cagaggtacc 180
atcctacgag atgcttgga ttccaaaaca tgaggaagaa gcgcctcccc ctccacaacc 240
gcaacgcctt ctctctccca tgggtgaagc ctgttctagg acggatctga cagctatcca 300
tcaaattcca atgaacacgc attacagga cgatgaatgg agcatcgagc tatcgttcca 360
ggaatggacg cag 373

<210> 17312

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A3

<400> 17312

gcgtccgaaa ttttggatca tcaatagtgc tggatcgtga tgatgataaa gtcaccgggg 60
atgccgtagc aggcacactg ggttatgtcg ctccagaaaa acttatggaa gcttatgcat 120
caatgatgtc tgatgtgttc tcttttggaa tcatcatcag tgagatcatt accgggagga 180
g 181

<210> 17313

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A6

<400> 17313

aagagctcga tgtaattata gcaacacctg gccgtttctt gtatctgctt caagaaggct 60
ttgtgcaact agctaacctc agatgtgttg tgttggatga agtggacatt ttatttggtg 120
aagaacgttt ccagcaagtg cttcatcagt tgatcaccga ggcaccagtg acaacgcagt 180
atcttttctg gactgccact cttcctcttg acatctataa caaggctcgtt gaaacctttc 240
ctgactgtga ggtgatcatg ggacccggtg tccaccgaac aagctctcgc cttgaagaga 300
tccttgtgga ctgcaacggc aaatgaccac gaagaaagag atccagaaac cgccttttcg 360
aaca 364

<210> 17314

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A7

<400> 17314

gtctcgtgac cgctggactc gccgccgcc caggctagct cgatgattgg gtgcgccaaag 60
ccgctcgcgg cgccgctgca ggcattgggt cgcccgccgt ctcccgccgg tcgcgcctc 120
ccccctcgt tctgcgcccc tgacacctcc ccagctctca ccggcgccgt caagacccca 180

ggccagtctc attctgagga cgcccggcca ccacgctcgg gtgaggccgc ctcgccctg 240
 gcgcccgcgc cgagctcgca tctcgaccga tgggtcccgg cgcgggcgct gcggtcgggc 300
 caccggccgc cgctgaaccg cgcggtctct tctcggcct cggctctggc gccgcccgtg 360
 atcaagtgcg cg 372

<210> 17315

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A8

<400> 17315

aacacgcgtc cggacaccaa gcaatgatgg agaagtaata cgagtgactg tcccaccatt 60
 gacatctgat cgcagaaagg aattatcaaa gacagtagct aaattagctg aagatggcaa 120
 ggttgctata aggaacataa gaagagatgc aatcaaagct tatgataaac tagagaagga 180
 aaagaagctt tctgaggaca atgtgaaaga tttatcagct gatttacaaa aagtcacaga 240
 tgagtacatg aaaaagatcg aatccatcca gaagcagaag gaacaggaac tgatgaaaat 300
 ttagacctca agctgactgt atggctgggt aggagtaacc gcctccgtga agcatggacc 360
 ccggcatatg ttggtgtttc tgaagcaatt tgtttg 396

<210> 17316

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B1

<400> 17316

accacacgtc cgctcggcca tgggtggtgc caagccggcg cacctgttcc tggacgagct 60
 gggcgtggcg tacgacgagg ccgaggacta cgtggtcatc aagcacgccg cgctcttcac 120
 gtccacggtc atgagcctgc tcttggcgcg cccaacgtc aagctgttca acgccgtggc 180
 cgtggaggac ctcatcgta ggggagggcg cgtcggcggc gtcgtacca actgggcgct 240
 cgtgtccatg aaccacgaca cgcagtcctg gcatggaccc caacgtcatg gaggccaagg 300
 tcgtggtcag ctctgcggc cagcagggc cttcggcg caccggcgctc aagaggctcc 360

aggacatcgg catga

375

<210> 17317

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B10

<400> 17317

accacgcgtc cgagggtcccc ctgcgccaac ggtcaatgca tggaacctat caaaccaagc 60
cggcgattct ccgatcccaa ccagactcat ggtggcggtc atggcgagca gcggggccat 120
gaaggcgctc agcaggccaa ccttcgtcac ccctcgtagc ttctttaact ggggcaaaag 180
cgcgagagaa accgagacgc cgccgccgca gctgcagttc tcctaccacg acgtcgagcc 240
accgttcccc atgtcgctcg tggcaaaaac acacctcaga gaccgtgagc tcagggtgctg 300
ctacaaggcc accgtggacg gcttcagtgc tacggacttc caccggcggt gcgacttcaa 360
gggcccctgc gtcgtcgttg gctacaccga cgggtggcttc 400

<210> 17318

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B2

<400> 17318

aacgaaaaaa aaagggttaaa tgatatgaaa ctcaaatgg atgaagaata caagcagcag 60
ctggagagtc ttgagcgcaa ggaaaaggct ttgagtgatg atatgaagca caagcaaattg 120
gaaaatgatg aatttctgaa gggagaacgt gctgatgttc aacgtaaatt gcaactcaaa 180
cggcataaat tggcgatgga gatggagcaa aaacaagcca cgaaggagaa ggaagtggaa 240
gaaaaggaaa atgagttaaa taagaaaata gattttgttg aaaataaact ccgacatgca 300
attgagttga atgagtccaa gattgagaag ttattaatgg agaaaaggga ggtgcagatg 360
ggaagagaat tactgctgga gggaaagaaa caaacggag 400

<210> 17319

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B3

<400> 17319

cacgcgtccg acaaaatgca cgggaggacc cagggcgccg ccgtcggcga catgacctag 60
cgcccttctc tcgccctctc gctcatcgca tcagcgaccg ccgtgcccgc tgtcatccgc 120
acgggtcccgg acgacccac cgcgggctcc tctggcgccg cagacgccgc ggacgcccctc 180
ttctgtgaca actggaagct gtccgtggag actgccaacg ccggcccctt gagccccctg 240
ccctcgcgct gtggggcttt cgttcgggac tacatggatg gacctcgcta cgcgtctgac 300
tccgccgtcg ccgacgccga cgccctagcc ttcgcctccg aagccctggc cgccgccgag 360
tggggcgggct cggcgagcgc caaggcttcg tgggtgttcg acgtccacga 410

<210> 17320

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B5

<400> 17320

gggtcgacac aagactctaa aatgacgtcg tactacctgc gattcgtcac gtaaaatcag 60
ggtgtctgtc tataatctaa cctccatgga tgctcaacct ttgtcatgta acaataatca 120
gtgtactctc tcattacata attttgatgc atatctgttt aaaaaaaaaa caacaataga 180
aaatcagaaa agaacaaaag aaaaaaaaaa atagaaaagg gaaaaaaaaa aaaggggtgg 240
cgctctaaac ga 252

<210> 17321

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B6

<400> 17321

atcttggttt cctctcccg ttcattctctc tctcttttg ccttcctttc cttgcgacga 60
cgactgggac gaggcggccc cgcgcttctg caggcgagca ccccgccacc agtcggagat 120

gaacgcgtcc aggaaatcca gccatctctc cagcaaggac agtgcagaga ccgcgagggg 180
 tatcatcacc acgtccggcc aaatccaacc cctcaaaatc ccggacgctg ttgctgcgct 240
 cgcacagget gctgcaaagg caaatggtga gaccgagaaa tatcttccag ggtggccgtt 300
 gttctcgctt cctaaggtgc agttggacaa gtgtaccaag tgctccagag aattctgttc 360
 tgcaatcagc ttccggaggc acacacgtgt tcatcgtag 399

<210> 17322
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B7

<400> 17322
 caaatctctg tctcgcgctg gtgcagcgca gggcaccccc acgcgcgcct catccggtag 60
 cggcatgacg agcgctccg aactcttcac cgcgcgccgt gccgccgtg gggcccgtt 120
 ctccgacctc aacctgggat cgaaggccga cgcactccgg gacgagcagg gccgtgcggg 180
 cccggaaccg gcgccccgtt tcgcgccgcg aagccaattt gaacgcgtcg gggaacgtgc 240
 ggcaacacgt gcacaccggg gccccacac cgcgtcgccg cgggt 285

<210> 17323
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B8

<400> 17323
 agctttctct ctccatctcg tttccccgc ctgcgcagcc agcgcaaacc cttagccaaca 60
 agcgccgttc tgcgaggctc tcggcagcgg ataacttaac ctgtcgcgca aggatcgggg 120
 gagagaaacc agcggcaact tacgtggatc ggggttgttt ggtgctgctg cggcggcgca 180
 gggatggacc ggaagcgcat caaggacgcy ctcgagaagc acctggagag gtcgtcgccg 240
 tctacttcca ggggcgtcgt gtccaaggag agggagcgcc tcgctgccgg gaagctgccg 300
 tcatcgcttg gcaaggcgga ggtgtctgat ggtgaggaat ttgaaactga cagtgaagat 360
 tctgatgtga gtggttccga gggagaggac acgtcctgga tttcat 406

<210> 17324
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B9

<400> 17324

gctccaggac ggacgtacgt acctagatcg atccagcgat cgctatctac ctgatgagca 60
tggcgctccct ctctcttggc gccatcacgg ccccttcctt cgctgccccg ccggcactcg 120
cactggccat cacgatggcc gtcaccatgc gtgcctctct tcgcaagggc agtggcaccg 180
cctgcgtggg cgttgccgcc accg 204

<210> 17325
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C1

<400> 17325

ccacgagtcc gcggacgcgt gggcggacgc gtgggcgaaa ccgaaagcac ccgcaccaat 60
ctctgctctt ctctgtcttc ggctgcgcgg cggcggcagc agcggacgag gttgaggaga 120
tgctgtccgg cgacatcccc ccgagccaga ccatctacct caacaacctc aacgagaagg 180
tcaagaaaga acaattgaag agatcgcttt atgccttgtg ctcacagtat ggaaggatac 240
tggatgtggg ggcctgaaa acacaaaaac tgatagggca agcatgggtg gcgttttagcg 300
aaattacagc tgctaccaat gctttccgtg gattgcaaga ttttgatttc tacggc 356

<210> 17326
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C11

<400> 17326

aaagggcgga cgcggagccg gcggcggagc ggagatggcg gagaagaagc gaggcgccgg 60
cactcgcaag gatgaggtgg tgacacgcga gtacactatc aacctccaca aacgcctcca 120

cggatgcacc tttaagaaga aggcacacaaa tgccatcaag gagatcagga agttcgctca 180
 gaaggccatg ggtactactg atgtccggat tgacgtgaag ctcaacaagc acatctggag 240
 cagtggatc cgcagtgtgc cgaggcgtgt cctgtgcaga attgcccga accggaacga 300
 tgaggaagac gccaaaggagg aactctactc tctggtcaca gttgctgaga tcccaccgga 360
 gggctcctaaa ggtttgggaa ctaagggtgt tgaggatgac ggataagccc tgtataccat 420
 gagata 426

<210> 17327

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-Q05-Q1-E1-C12

<400> 17327

tgtggatttg ggggagcttc ttcactggcg agtgtagagc tccggtacct aagcgacgga 60
 acgaacacgg acgaggggaa tcacataggt ctccccgatg gcggactggg gccccgtgat 120
 cgtaacgaca gtgctgttcg tgggcgtcac accggggctg ctctcaccg tgctcgggcc 180
 ggcgcgcgct ctgagagttc ggcagctatc acaccaaccg cctggccatc ctgctccaac 240
 cctgctctta cttcgcgtc atcagcatct tctcctcgc tagtcggatc cacgttt 297

<210> 17328

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C3

<400> 17328

cggacacgtg ggcggtcacc ctattactga agatggtagc ctgacttaca tgacacataa 60
 aggctggatt ctgaaaggac ccagtagtag caacgaagta gtccatgctg ggattccaga 120
 tgtcatggtc attgttctac ctcacctttg ctttgtgtta gtaccacca ttgtgatttt 180
 agctgccatg gctgctgaga gaacagcata tcgagagcat tatctttctc gatcaggaaa 240
 gaagaaagat gactaccgta agaacaggag acagatagaa catgaaaact tttggaacgg 300
 tcgctggatt aacaaatttc tgtgtcttct ctgcgtggtg gttctatgca aacattggaa 360

gctttgcaga gcgctcggtta acgcttatgc tatgaacccc ttgctcc

407

<210> 17329

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C4

<400> 17329

gggaagaagg gagcggccgg gcgcaaggtc ggcaggccaa ggaagaagtc ggtgtcgaag 60
tccgtgaacg ccgggctcca gttccccgtc ggccgcatcg ggcgctactt gaagaagggc 120
cgctacgcgc agcgtgtcgg caccggcgcc cccgtctacc tcgccgtgt cctcgaatac 180
ctcgccgtg aggttctgga gctcgtggt aatgctgcca gggacaacaa gaagactcgc 240
attattccgc gccacgtgct tctggcgatc cggaacgacg acgagcttgg gaagctgttg 300
ggcggcgtga ccatcgtca cggcgggtgtg ccccccaata tcaaccctgt tctgctgccc 360
aagaacaccg cggagaacgc gtccagtggc ggggagc 397

<210> 17330

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C5

<400> 17330

aggacgcgtg ggtgctggac ctttccagag ggcggaggat tgcaccgtat tgcaggcggc 60
gatatctact aagacaccat acattgatgt ctgcgatgac acggactatt cttggagagc 120
tcagggcttc catgagcgag ctaaagctgc ctgtgttccg gccattacta gggctggcat 180
ctatccggga gttagcgatg tgactggcct gctgaccttg tcgatgccgc cagatgtcaa 240
gttggcgaac ctgatggacc aacatgcctc tactagagtg catgtactgg tggtgccggc 300
ccaccactat tgactcggcg ctctttctac gtcgtgggga gga 343

<210> 17331

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C6

<400> 17331

aaacacgacg tctgcccacg cgtccggagc ggcggccatt cttcaactcc attttttggt 60
gtctgttggg atgcagagct agtatagacg tctcctccaa ctcaagggtg gtgaaagtgc 120
tgtcagcaac gtacgggtat tgatcgagtt tgacatattc caagaaggac aaagaccaat 180
gcatgagaag atggacaatg tgacacagaa taatctctgg aaaatagata cttggaagca 240
tcacgtcaa acaagactat tatgaggact acaaaagccg cccgcccgtt cgacagcgag 300
ctataaagtg accggaag 318

<210> 17332

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C7

<400> 17332

aggacgcgtg ggcggacgcg tgggtgttgg cagtccaagg tatctttcgg ggattcaagg 60
atacaaagac tccggtgttt tatatagggt tgggcaatct ttctgctgta gcccttcttc 120
ctctacttat atatggcttt aagcttggca taactggtgc tgcaatttct acagttgtgt 180
cccagtacat tattacagtt cttcttattt ggtctctaag taaaagagct gttttgcttc 240
ctccgcgaat agatcaatta gagtttgggt gatatctaaa atctggtgga atgctgttgg 300
gaagaactct ttcaattctg ctaactatga ccattggtac atcaatggct gctcggcaag 360
gccaacaac gatggctgct catcagattt gtttgcaagt atggcttg 408

<210> 17333

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C8

<400> 17333

aggacgcgtg gggttgtcct gacagttcgg attaccactt tcatcaaacg cagagacgaa 60
actccgcaac tccgccgacg aactaataac caaaataaat atgtataaaa tttgatgt 118

<210> 17334
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C9

<400> 17334

```
aaccactccg cgctagctga ggacgggtaca gcggcacaga ggtgcgacgt acgacgacga 60
cgacgcaggc gccacacatg gcatcccagc tctccgccgc cgtgcccccg ttccacggcc 120
tccgggggcta cgccgcgccc aggtccgcgg tggcagcgct gccgtccgtg agggtgggca 180
ggaagaggtc ctcgtcgcat ggcattccgt gctactacat ctgctccgcc accagcctga 240
tcatgggtgac gacgacgacg ctgatgctgt tcgcgggggc gtttcggctg gcgccgtcgg 300
cgaatcccag tgcgacggcg gggctgaagc tggcggcgct ctactcgcg ctgcagacgg 360
gtgacgccgc cgggttcaag ctgcgcgaca cgctggcctg cgggggcc 407
```

<210> 17335
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-D1

<400> 17335

```
agcctgtaga gtgcgggggag caggagccgg cggagccatg gcgaccactc tttcgttatc 60
ctctcccttc ttctcgggag ctccggccag agctagagat gtggttccgt acggagtgac 120
ttcggttagt gtatcactga tgactctaaa tatgccaggc aagggttaca cgagtagagt 180
tcgttgtcgg gacgacgacg gacgaacgac aatagtatct atgcttggaa ggaaatcaac 240
ggctagagca actgttgtcc cagaccccga ctataggtta ccaatcgcta tacttgggat 300
tgctagtgtt tttgcatatg ccgacaatct tctcgtgct gcacctgtag gactgctggg 360
gcttcttctt ttgttccaga ctacaaaaat gaggttcgt 399
```

<210> 17336
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-D11

<400> 17336

cccagccgtc cgagaagcac tacactacac tacaccacac ccacccgacg acgatcacac 60
acgcagaaga tcgagttcgt tcgatcgtga ccgtgacgca cgaagctata agctagccaa 120
gacatgaata ataatggcgg cctctaccgt ggtgagcctc tctgtcccgg tgacgacgac 180
gaccttcgcg gtggctggcg gcggcgacgt gctgatcgtc gtcccagga gggcgggccc 240
ca 242

<210> 17337

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-D5

<400> 17337

cgacgcaagc gtctgaagag agtcatatca cgagcggcct cccttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt ttttttctgt aaatcactct 120
taattccatt agatctcgag aattagagca agacagacag tattacatcg tgctgctgct 180
gctgctgcta cagatacaca cacagcagga ggagacagga aggtttcgcg agaccaggct 240
ccctcgactc cccacggatt agaggatgag ttagtcacat taccagagag tagttaccga 300
gtcttggcag tggtaaaaag gaggggaaca ggagagagag gcgaaaatta tcaatttcga 360
gggagagaat agcaggatag cacgagaggc acttcatggc ggggtgg 407

<210> 17338

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-D6

<400> 17338

agcctcgttc cgcacccggc gtgcctactt ctactgggtg acccgggagc aggggtcctt 60
cgagtgggtc cgcggcgtga tggacgaggt ggcggacacg gacaggaagg gcgtcatcga 120
gctgcacaag tactgcacca gcgtgtacga ggaaggggac gcccggtccg cgctcatcgc 180

catgctccag tcgctcaacc acgccaagca cggcgctcgac gtggtgtccg gcacccgcgg 240
tcaagaccca ctctgccaga cccaactggc gcaacgtcta caagcgcatc gcgctcaacc 300
accagaacca gcgcgtccga gtgttccact gcggcgcccc ggtgctgaac 350

<210> 17339

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-D7

<400> 17339

accacgcgtc cgcccacgcg tccggggacg aggacatgga cctggtgatc ccccggtgtt 60
caacggctgc acccgattgc tcaacgccga ggaccagaag gtggcacgag aectctactg 120
ggaggcggta tgcggcgagg aggcgtcgga ctggctcaag gtggaccacc tcctccagca 180
gagcattgcc aataaccctt ttgtggggga accacacctg gtgcttgccc agttgtacct 240
taacatggaa aggtacggca aggcgcatat ccagcgc 277

<210> 17340

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-D9

<400> 17340

accacgcgtc cgcggacgcg tgggagcgca ttcgcgattt tggccgcctc cgccgccgtc 60
cgggaagatg gcgggtctgg gaaaggcgat gtacgcggtg gggttctgga tccgggagac 120
tggccaggcc ctgcaccgcc tgggctgccg cctgcagggc aagtacttct tccacgagca 180
gatttcaagg catcgacca tcatgaatat ctttgacaaa acccctcatg tgcataaaga 240
cgcatttggt gtcceaagt catcccttat tggatgatgt caagtcgggt caggagcttc 300
catttggtat ggggtgcgtc taagagggga tgcaaacatc atacaaattg gatctgggac 360
caatatacaa gacaattctc ttatacatgt ggctaaatct aatcta 406

<210> 17341

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E10

<400> 17341

tccgaggacg catgggatcc ggaggaggtt ttctataaca cagctcagta ctatagggca 60
taccatggac ataaaacggg tctcgtgca gtgttgattg gtcgtcgtcc aattgtttca 120
gcatttcaat acattaagca gcgaacgagg tataaccagg ccatgaaaaa tgt 173

<210> 17342

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E11

<400> 17342

gtccgagaag aagacgactt ttggaacatg cttttgatca gctaagtttg cattctgaag 60
aacatctcaa aggaccgatt ctagtctcat ttactaatga gcatcgcgac gaacaggtta 120
gaatctgaag cggcggaact ttcaaagatt tcatggaaaa tactactcca gcggccttttg 180
gtgtgcagta ccgtctcttc aaggcgactg ccgattatct ttcgtagccc atcaccacgg 240
tcaggattgg ct 252

<210> 17343

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E12

<400> 17343

gtccgatgct gcataccctt caagcctgcc gaccatcgca tcatcggta tcgctagctt 60
tttttcttca cttctggctt gcgtctcttg tttgctgttg gattcataag cgcaaggaag 120
gacgagagat agagcgacga actgtcttgc tcggaactct cccacaactg ggctctgaca 180
tgagtaatgg gttctgagga tataaccgcg cgagcttcct cccgttctgc gtaccctgcg 240
acgtatgggc aacgccgggg gctatgacct gtcaccaaag aagagggaaa atgcgagaaa 300
agcaacggct gtaccatgat aaccaaggat gcatgtattg ctgtttgagt ttccgctcgtg 360

ttcacagaat cctctc

376

<210> 17344

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E3

<400> 17344

gtcataataa tatgcatgct cctcaactta acacagggaa aacagggtcag gaagaaagtg 60

aagggcttct tcaagcgcta tcctgatgct caaacagaat tcagaaattc tctaaggctt 120

acgttggaga agaatggacc tatatcactg agctttgtgg tgttggcaag tatgctgctg 180

atgcttacgc aagcttctgt gctggaaggg caaactaagt gggtccaaaa gatcacaaagt 240

tagtagatta ctggaattat gtctgttttg agttaccctc gattcagaaa tcgcaggacg 300

ctggagtgcg cgagctggga aaccttgctg ctaaagtgcg cgaagttgct gtgagctgtt 360

gacatgggaa aacagtaacg cgggtgggaag cgcttttg 398

<210> 17345

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E7

<400> 17345

tagcatgtct ccaaccacta tcctcattga gaattgagag gcagactcta gttggaatac 60

aagacttgct tgatcagccc aatccagctg atcctgccc aactgatggt tatcacctat 120

tcattccagga tccaacagaa tataagcgac gtgttctgtc gcaggccaag caatatcctg 180

ctctggtcgg aggatgttgg cataccacag atccatgac catcctgcac atccgcagac 240

tagttccaaa tgtgaaaatt agggctctca attggatttg acgggacata gggtgtcggg 300

aggattgtcc aggtgtaacc ggaaccttct atgatgtgta cga 343

<210> 17346

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E8

<400> 17346

aagatattta catgtacaaa gacttgatta ttgcattaac caaatgcaag aatatggagg 60
aaaccatggt aatcctgggg aaaaagagaa aatgacaatt gtttcctgaa tcacaaactt 120
aagcccaagt tataagaagg ttccttaaaa aatgggtccc aaccaattga aatgactatt 180
tacgaggaca tgaaaaagtc acctgatcca ccagaagatt taccttttag ggtactgtta 240
aagggctctt tacctcacc acctgtctaag aaatacattt aaacaagat tttgaacaaa 300
tgttcccaaa aaaggcatat ctatgattct ccagaagaaa tttttggcat gactgacgt 360
atattcagag gcatgaatgt atttaccac tggatg 396

<210> 17347

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E9

<400> 17347

accacgcgac cgcccacgcg tccggtcgtg gatccccgcc ttcaagagcg acgccgagtt 60
catcaaccgc ccctggctcg acggatcgct ccctggcgac ttcggattcg atccgctggg 120
gctgggcaag gacccggcgt tcctcaagtg gtaccgggag gcgagctga tccacgggcg 180
gtgggcatg gccgccgtgc tgggcatctt cgtgggaaaa gcctggagcg gcatcccggt 240
gttcgaggcc ggcgccgacc cgggcgccat cgcgcccttc gccttcgggt cgctgctggg 300
cacacaactg ctgc 314

<210> 17348

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-F10

<400> 17348

agcccggtgca acctcatatc atcccctgcc acgcacctcc gtccgccgcg ccattggaatc 60
gaggaggagg gccgtgccca ccgtgacggc ggttgcggtg gcgacgctgc tgctgctgct 120

gatgtcgtcg ggcgtgggag ggcacttcgc ggcggaccgg ggcgagtgtc cggagcagct 180
 ggcgggggctg ggcagctgcc tgacgtacgt gcaggagcag ggcacggcga cggcgccgac 240
 gcccgactgc tgcgcgggcc tgaaggcggg gctgcagagc agccgcaagt gcctgtgcgt 300
 gctggtcaag gaccgggagc accccaacct acgcctcaag ctcaacgtcg acaaggcgct 360
 cggcctcccc gccgtctgcc acgcgcccgc caacatctcc gactgcccc aactgctgga 420
 cctgccggggc 430

<210> 17349

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-005-Q1-E1-F11

<400> 17349

gtcgacccgc ccgtccgcag acgcgtgggg caagatangg tgtgggacga caaaccttcc 60
 aacaagaagc tggattttac agaccgggca gacgagagag gggacgaggt gacagacaat 120
 gtggcggtca tcgagggaga aagcatgatg gataaggatg aggatctgag cagcgacagc 180
 gaggacgaag aggtggaaga tggacccaaa aagaaaggat ggttctcatc aatgttccag 240
 agtattttctg gtaacaatgt attggagaag tctgatctgc agcctgcgct caaagctctc 300
 aaagataagc tgatggcaaa gaacgtggca caggaaattg cagagaagct ttgtgaatct 360
 gtcgcagcta gccttgacgg caagaagcta cgatctttca ctagaatatc atcaacagtc 420
 cagacagcta tcgaggat 438

<210> 17350

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-F12

<400> 17350

tccaaactcc tcatgcatcc tacctccctg gtgcccgtca cgttcaccac gttcgccccg 60
 tcattcaccg gggcgctcgc ccagctcggc ctcccggcgc ccacggcagc cagggtccccg 120
 ggccgccccg tcgggtccgcc accgaagcaa cgaattgggt ctttttagtac ttgacagaaa 180

tacatatatt ccacgcatgg tggcgtcttt agacaatgtg acgggcttga ctttagccat 240
 gtcacgcagt gcattcattg gttcgcagctt tgtgatcaac aaagttgggt tgaagaatgc 300
 tggggataat ggggtccgta cagcttccgg aggcctctca aatctatatg agcccttatg 360
 gtggttggga atgataacta tgattctatg cgaggttaacc aattttgcaa catatg. 416

<210> 17351
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-F6

<400> 17351

accacgcgtc cgcccaacgc tccgggggtga agcaccgccg ccgtctccgc tgccgcacaa 60
 agacgagagg aagagggtcc cggcgccctcc accaccatgt cgtcgatgat gaacgcgctg 120
 gcgaactggc tggcgaaacc gcgccgaac ccgtggcgcc gcctccacat gcacgccgtc 180
 tctcgcgcgc tcaggaaata cggactgagg tacgacgacc tctacgaccc ctacttcgat 240
 ctggacatca ttgacgcgct cggtagcgtg cctagggagg tggtcgacgc ccgcatccag 300
 cgccctc 306

<210> 17352
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-F7

<400> 17352

aattcctctg ggtggtgcga gctcctctcg gcgacaaccc ggagagggag ttcggcgaca 60
 aggetgaccc ggacctgcag gcgctcctgc ccgaagggtt cctggagagg accagagggc 120
 gcggccttgt cgtcaagcta tgggcgccgc acgtggcggt gctccggcac aaggcgacgg 180
 gcgcgttcgt gacgcactgt ggggtggaact ctgtgctgga gggggtcatg gccggcgctg 240
 ccatgctctg ctggccgttg tatgcggagc agaagatgaa caaggtgctc atgggtggagg 300
 agctacggat cggcgtggag cttgctgggt ggcaccagca tgggttggtg aaggccgaga 360
 aactggaggc caagggtg 378

<210> 17353
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-F8

<400> 17353

tcaaaagcta ccccttatcc gatccaaccc tctggctgct cctccgtccg gccggcatcg 60
gcagtgcagg atggctctga ggatgtgggc gagctcagcc gccaatgcgc tcäagctctc 120
ggcggggcggc gccggagccc gggctgctgc cttctctatc tccaggttct tctccactgt 180
tcacgatggg ttgaagtaca ctcagtctca cgaatgggtc aagacgaccg gcgacctcgc 240
caccgttggg atcacgggcc atgct 265

<210> 17354
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-F9

<400> 17354

gtcgacccgg cccgtccgag aacagaaagg aaacaccgcc gccgccgcgc cttccattcc 60
agtactcgcg gaggaagga acaccagcca gcgccatggt cacgtcgacg accgccgccg 120
ccgtgctgtc cccgccgtcc gtggccgggc ttgcctggc gccgtctccc cgggcgcgcg 180
tggcggttcg cgcggcgcgg gcgcggcggt ccgtggcggc gcgcgcggag ctgagcccgt 240
cgctggtgat cagcctgagc acgggcgtgt cgctcttctt gcgcgcgttc gtcttcgtca 300
acttcacgcg ggagaacgtg gcgaagcacg tgcccagca gaacggcaag acgcacttcg 360
acgccggcga cgagcgcgcc aaggagttct cgggcctgct caagtccaac gaccccgtgg 420
gcttcaacct cgttcgagtc ctcgcc 446

<210> 17355
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-G10

<400> 17355

gtcaattggg aaagatgctt caggcaacga gctgcttctt gatgttggcc tttgggttacc 60
tcagaagata aatgaacatt tcaagaaaaa caagatgacc attaactctga agtacataga 120
tccaacgtac atgatacttg ccatcccaag caatgcttct gataacgtct attgcacact 180
gctggctcac agcgtggtcc atggagccat ggctggatat actggtttta ccattggcca 240
agtgaatggt cggcactgct acatcccatt ctataggata acagagaagc agaacagagt 300
ttcgataacc gacaggatgt gggcaaggct tctctcgtcg acgaaccagc caagcctcct 360
ttgcaacaaa gtcgtcgagg ag 382

<210> 17356

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-G3

<400> 17356

agctgttcaa cgccgtggcc gtggaggacc tcatcgtcag gggagggcgc gtcggcggcg 60
tcgtcaccaa ctgggcgctc gtgtccatga accacgacac gcagtcctgc atggacccca 120
acgtcatgga ggccaaggct gtggtcagct cctgcggcca cgacggggcc ttcggcgcca 180
ccggcgtaaa gaggtccag gacatcgga tgatcagcgc cgtgccgggg atgaaggcgc 240
tcgacatgaa caccgccgag gacgagatcg tgcccctcac gcgcgaggct gttcccggca 300
tgatcgtcac cgggatggag ggtcccga ttgacggcgc cccaggatg ggcccgaact 360
tt 362

<210> 17357

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-G9

<400> 17357

aagtctgtaa tcaaggctcc atgccgcaat gtacatttgc tggcatccca cttcaactgg 60
caggaaccaa aaaaattttg gcattcatgg accgaggtga ccacggggcg aacggcacct 120

tcattaatat tggccacta ggtgctagag atgttccac ataatatgat atgtttgtcc 180
 tcattgctcc acagaatgct gttggcaacc gcacaattga tgatatcaga gctatgactg 240
 atgctgctgg tgatacacct gtcaatcttg tgaatcctcg 280

<210> 17358

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-H10

<400> 17358

gaccgagccg tcggacttgc tcgtcagccc ggataagata acgcccattct gcacggggcca 60
 cgcaagcgt tcgagctcct cccacgggag ccattggtcac cgccacgacg tccccgctct 120
 tctccctctc ctccctccgc gctccctcc cttccccac ccgatttcac acgtctctct 180
 cgctccgagc cctctcccca cgtgctcgtc tctctgccgc cctccctttc gctcccccac 240
 tcgtttcagg cgggtaccgg acctggggcg cgacttcaat ctgctccgcg ggaagggtga 300
 gaccgccggg gctggagggtg gtgtgcgagg ccacgaccgg gcggctgccg gactccgtta 360
 agaagacgg 369

<210> 17359

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-H3

<400> 17359

acttcagacg ggtcagtgga atctttatgc caaaatcct gattcgagta atcatttatt 60
 tgggtaccact caaggagcgg gaactgccat tctgaccctt cttgggggat tccatccaca 120
 aacacaaagt ttgtggctga ccgatattgc tcatcatcat ttagctattg cattttattt 180
 tctcattgcc ggtcatatgt atcgaactaa cttcggaatt gggcacagta tcaaagatct 240
 tttagaagca catactctc cggggggtcg attaggacgt gggcataaag gcctttatga 300
 tacaatccaa taattcgatt cattttcaat tatgccttgc tctaacttcc ttacgggtta 360
 ttactt 366

<210> 17360
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-H4

<400> 17360

cggggtcgagg cacgcgtcca gactgaattt gctcgagagt gagaggaagg cgtaacagtg 60
tgaaggaggc gcgggggaca atatggctgc cgaaatggtg aaagcggcga cgagcgacaa 120
gctcaaggag atggattggg caaagaacat cgaaatctgc gagctcgtgg cgcaggatcc 180
tgggaaagcg aaggatgtga tcaagtctgt agagaagtgt ataggagca ggaggaagac 240
cagtcaactc tttgctgtta tgctattgga gatgcttctg aataagtgcg gagagcctgt 300
ccataaggag gtcattgaga aaggccttct tcgaatagtt gtgaagatag tgaagaaaaa 360
gacggattta ccagttcgag aaa 383

<210> 17361
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-H5

<400> 17361

tcgcggggtcg acgcacgcct ctaaagagta tctgatcata tatgtattcc aatacggat 60
gaggattttc aatgcgggat ataaaaacat atctctctgt agcaccctgt ctaagtactc 120
tatggtttgg ggctttacca cgtttattga taaaaatcaa tcgtttattc ccagatgctt 180
tgtcattccc ttttttttaa ttcgagttat tcctatgcca gagatagaat tcttcctgag 240
atcacgaaca tttccctttt ttga 264

<210> 17362
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-H6

<400> 17362

caagtacgag atccaagggt tccaacccat caagatattc agggaccagg ggaagaacat 60
tcaggaatac aagggcccta gggaggctga tggcattgtg gattacttga agaagcaggt 120
tggccctgcg tccaacgaga tcaagtcacc agaagatgcg acggccctta tcgatgacaa 180
gaagatctac attgttggtg tcttcgctga attcagcggc accgaattta caaacttcat 240
ggacgtccca gagaatctga ggtctgacta ccactttggc cacactttgc atgccagcca 300
cctccacgt ggtgatgcat cagtggaaacg gccattggc acgctgct 348

<210> 17363

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-H7

<400> 17363

agacactgcg gccgggcat ggcgagcgtg gagggcaaga gggagacggt gctggtcacc 60
ggcgccagcg gcttcacg atcgaccctc gtggcctcc tctcgaccg cggctacaac 120
gtccatgccg gcgtcctcaa ccccgatgac aaggcggaga cggagcacct ggtcgccctg 180
ggcgccggcg ccggcgaagg ccggctgctg gtcttcccg gcgacctcct cgacggcgcc 240
ggcgtcatgg ccgcccgcgg gggctgctg ggcgtgttcc acctcgccag cccctgcacc 300
gtccaccccg tgagcgaccc gcaggggagc atggtggtgc cgggggtgga aggcacgctc 360
aacgtcctgg cgcgccgcca agggagccc caccgtgctg cgggtggt 408

<210> 17364

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-H9

<400> 17364

cgctcgccc cagccgtccg cccacgcgtc cgcggacg tgggttgaga cgcttcctc 60
tctctcttgt tcttctcgcc ttctgccgga gtgatggcca gcctcaccga cctcgtcaac 120
ctcgacctga gtgactgcac cgacaggatc atcgccgagt acatctggat tggaggatcc 180
ggcatagacc tcaggagcaa agcgaggacc gtgaaaggcc ccatcaccga cccgagccag 240

ctgccgaaat ggaactacga cggctccagc accgggcaag ctcccggaga ggacagcgaa 300
 gtcacacctct accctcaagc cattttcaag gaccggtttc aggaaagggg aaccacatcc 360
 tttgtgatgt gtgactggct acaccacaa ggcgagccaa tcccaaccaa caag 414

<210> 17365

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-A10

<400> 17365

gcagcagcac acagcccat cccaatccta gtcgatcttc ttccctcct caagccgggt 60
 ccttcgtcca cacgaccgcg cgctcggaaa actccgcgga ggcgaagga ggcgaaccaa 120
 gggcgacgta tccgccgcg gagaaggtag ccttcgatcc gccgtctccc gcgattcggt 180
 tgtcttgcca cagctgggcg accgtcgteg ccgcgcctt tctccagggtg ccaggtctt 240
 cgccgggtccc ttgcccgtt ccttgccgcc gacgagcacc agccaggaag aaaagaagct 300
 gaaccatggg gaagagaaag tcagctgcta agccacctcc taagaagcgg atggacaagc 360
 ttgacactgt cttttcctgc ccattctgca accacgggag tagtggtgag tgccgaattg 420
 acatg 425

<210> 17366

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-A11

<400> 17366

aactccaagt aaatgcaagt tcttcatgtg gctcgtggcc cagcatcgct gctggacagc 60
 agaccgacta gcaaaaagag gactgcctca cctcaattt tgtatacttt gtgatcaaga 120
 ggaagaaaacg ataaaccact tgctggtttc ctgcgttttc tctcgggctg tctggtttca 180
 gatgatgaaa tctgttgggt tgcagcatct tgctcctaac cctgcgtgct cctcctttga 240
 agattgggtg gaagggggtg ctgcattttc tgctggtcta gtaaacacag ggctgcacaa 300
 gggcttgaat tctttgatca ttattgggtg ttgggccatc tggaatcacc gcaatagctg 360

tggttttaaat ggtgtgcagc ctagtcaaag catggtcac aattgggtca agg 413

<210> 17367

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-A12

<400> 17367

ctcgcggggtc gacacaagcg tccaaacaca cgttctgacc aacgcgtccg gtaatgatgg 60
ataggaactc catctggttt tgtcaaggct cagcagccaa aaaactgaat attgatttgc 120
cagaaactga aattgtagaa acacacagga accatagtgc aaggatcact tgtctgagggc 180
tatttcctct gattgatacc ccaactgtttc gaagtgatac acaaaaaaat gaaaaagcat 240
tagtcacttc aagcacagac agaacaatcc gtctttgttg gaagggttat tcacgctggt 300
acaagggccca ttcagcgctt gtgactgctc tggctgacag attgcttatg gatggtgaat 360
ctaaactgct tgcaagtgga ggggaagact gcaccattcg cctatggtct atgagtacga 420
aggcgaaaaa tcaccactg ctagcaacat t 451

<210> 17368

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-A2

<400> 17368

acgcgtccgg aagctataag tgctacagag ggggtgatac aaaggaatgg aagtgattga 60
cacgggaact cctctcagtg ttccagtcgg tggagctact ctccgaccaa gttttaacgt 120
tcgtggggag cctagtgaca atttgggtcc tgtggatagt aatgcaacat ttcgtattca 180
tagatatgog cctgccttta acgaattaga tacgacatta tctatctttg aaacacgtat 240
taaggggggtc gatcttttaa ctctaacga cgtggacgaa aaatcagact gtttg 295

<210> 17369

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-A3

<400> 17369

tgggttccaa actcagggct tcccatgggt gccatccaca gtaaattggca cacatgggtt 60
ctgttgcatc acttgcatg tcagtcacta taaacgagga tgaggaggaa gatggggata 120
ccgggagtga tcaacaaccg aaaggcagga agctgtgggg gcttgcgtc tgccatcata 180
caagcccgag gttcgtccct ttccactaa ggtatgcttg cgagtttctc ttgcaagtat 240
ttggcagaca 250

<210> 17370

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-A8

<400> 17370

aacacatgct tcagcaacgc acggaagcca gctcttgtct gttccgactg cttctccatg 60
cgctcctccc tgctgccgct cgcgcccagc tccatcttct cctgagcgcc cagccgaggt 120
ccctgtgcc a tcgccgct ccagctccat ctgccatgg ccgccgcgcc tgctccctgg 180
ccggcgctcg gcttcgaact cgccccatct ccctggtcgc gttggtttcc tgggcgtgtc 240
tctcttccct gctggcagcc acgctaact tctggccgc gacctcgctt tgctctctac 300
gtcgtgttcc gccgggtcaa gcctcatgtt gtcgcgtcct atttctgct cgccagtgtg 360
ccctcttggc tcgctcggct ttaagtccca atcgcg 396

<210> 17371

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-A9

<400> 17371

agactcgccg ctgacgaaga cgatgaaggg tgcggtgaca ggactcgccg cggggaccat 60
ctggggcacc gtcgtcgcca cctggtacga cgtgccccgt gtggagcgcc acgtcgcgct 120
ccctggcctt atccggacgc tcaagatgtg cggcacctac ggggccacct tcgccaccat 180

cgggggcctc tacatcggcg tcgagcagct cgtgcagagc cagcgcaaga agcgcgactt 240
 cgtcaacggg gccgtcggcg cgttcgttgc cggagcctct gtctgcggct acagaggaaa 300
 gagtattcag tcagccctca tcggaggctc ctgtctggct ttcacatctg ctgtgctgga 360
 cattggcggc aatacgacca gagttgacaa cggcaaagag tactatgcct acacaac 417

<210> 17372
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B1

<400> 17372

aggacgcatg ggcgcggggc tgaccccggtg caaggagtcc aaggcggtcg cgaagcgcg 60
 gaagaactcg atcaagaagc tcaccgcgtc gctgaagaag tacgcgccc acagcgcccc 120
 cgcgctcgcc atcaacgccca ccatacgagaa gaccaagcgc cggttcgaga actacggcaa 180
 gttcggggctg ctgtgcggcg ccgacggcct gccgcacctc atcgtcagcg gcgaccagct 240
 gcactggggc gagttcgta ccccgggcct gctcttctc cacaatcgccg gctggatcgg 300
 gtgggtcggc aggagctacc tcatacgccat cagcggcgag aagaagccc ccatgaggg 360
 ga 362

<210> 17373
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B11

<400> 17373

agagatatga ttggtgttgg tgcgctttca aaaaagaaa ctgagataaa gtgtataaaa 60
 ggtacaaaaa ctctttggtc ggatcggtgc tctggaaagg ttactgtctt gggaggcaat 120
 gcaaatttct gggctgttgg atgcgaagat ggtttcctgc aagtttacac aagatgtgga 180
 gtgcgagcaa tgccagcagt gatgatggga tgtgcagctg tttttattga ttgtgacgag 240
 tcctggaaat tgcttcttgg cacaaggaaa ggtctaattg acatatggaa cctttatgat 300
 aggacctgca ttttgcagga ctcttaaac tgcgttgggt gcatacgag atgagtgagc 360

tgcaagaaat gctg

374

<210> 17374

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B2

<400> 17374

cgtacgtagt gcaacgactg tcgattcggtt ggggtgaggaa catatatgtg aatgcaaact 60

ccggggtaca tacatgtgta atgtgtaata catatatata caaaactgcc gaggcgccga 120

caatacttta ataactgggc cttttaat 148

<210> 17375

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B3

<400> 17375

atcccacatg agattgctaa catcgacaag agagggggcac ggaaagacaa ggagaacaag 60

cctgagatcc tggatgatcca gggaccgaaa cctgggaagc caacgggcat ggcaccgatg 120

ccgcagatat tgctgaagct gaaacacact cgcccaccac acaggaaacc aactccgcca 180

cctgccgcag ctaccggaaa cgatggagca ccaactgccg ccggaaggat ggagctaagc 240

c 241

<210> 17376

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B5

<400> 17376

accacgcgtc cgcccacgcg tccggtttga caaagtttgt cagtgaacctt ttcttggttg 60

gactgttcta ccatctgtat aaccagattg ctacaaacac cttggagcga gtggctcctc 120

tgacacatgc tgcgggaat gtgttgaaac gtgtttttgt catcggtttc tcaatcattg 180

tttttggcaa caaaattagc acacaaactg gaattggcac gtccattgcc atagctggtg 240
 ttgctatgta ctcttacatt aaggctaaga ttgaagagga gaaaaggaaa aagagcgcat 300
 gactgctgtg aataatatta tcgagacctt cctcggacac aacatcgtcg acaatcacga 360
 cctacttcta tategtggtt tgttttcatc ttgagtcagt cggccaatg ttgggtc 417

<210> 17377

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B6

<400> 17377

agcagtgcc aaggtacgcc tggaaaccct agccttgaca cttgatgag catgctcatt 60
 gggcgtggtt cgggaggttg catatgtgtt ccaagtactt ccaatgtgcc accggcggag 120
 ctccatgcc cacagcttat acagctcaaa gaaatgggtc tcattgatgc tgctgagaac 180
 atttcagcag tgctcgctac cgctgggaat gtacatgatg cggcggagcg tcttctcggg 240
 aaccttgggg agtagctaaa accagcgatg ccacacaccg ccagtaaata ttaaaatgtc 300
 ggcacatctgc acgagtgttc ggcttaa 327

<210> 17378

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B7

<400> 17378

agccttgaaa ttctttgcat ctgtccgtct tgagatacgg ctcatggga agataaaatc 60
 tgccaacgga gatgaagatg ttggtgtgaa ggctcgtgtc agagtgcaga acagtaaagt 120
 atctagggcc tacaagcaag ctgaatttga aatcagtttt ggggaggggtg ttagtaaatt 180
 ggggtgcgtt cttgattgtg ctgaactga 209

<210> 17379

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B8

<400> 17379

actgcttctt cggttttcag gagcgtcggc cattgctgct ggaaaagcag accattggga 60
ctccctcgtg cgtttttccaa atcagtcagg ttgatggcga tggagggacc agttttatgc 120
cgccctgcaa tgcaagccaa atcgctgct gctgcgctgg tcaacaactc cctgaccaga 180
ttcgggcagc ttgggaccat ttcaaaatac aggaacgttt caagattcat ttctcccatc 240
tctcagccat ctaccaagaa cataggtcca tgctgtgact tcagctcgtc ttctgaaggc 300
aatggataca tggctgggaa ctttagcgac agtga 335

<210> 17380

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B9

<400> 17380

atacaccaga acaactgtct agtggagggtg aaaatgagaa atcttcacta tctgagagtg 60
aaaagaatga tacaccaaga gaagggtgcta aagagacaac aagtaaaactt tctgctgctg 120
cggctccatt caatccatcc agcgtaccag cttttgggtc aatggctgtc ccaggtttca 180
gagaacatgg agggctattg ccatcaccag ccaatgtgcc ccctatgctg tccatccctc 240
tccgcaagca ccctcaccaa tctgcaactg caagggtacc ttatgggtcca cgtctggctg 300
gaggctacaa tagatcaggg caccgaggac ttcgtaagaa gcctgtgttg acaagtgggtg 360
aggcccctac agaaacaaac acgtctggcc ccaggattat gaaccctaac gccccagagt 420
ttgttc 426

<210> 17381

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C1

<400> 17381

agctgatcgt caagtggacg tcacttaaca acactaacct agtggttactc acgatcactc 60

ttcggatgac aaagtcgacg atgaacccca tggagtaaac gacgacgttg ttgtatccac 120
cacatggaga cgaatgacga caacggcaca acggcacgag cagaaaggct tggccagggc 180
acagtccgag ccggttgacg gcgagccca ccgcataga tcaaggctga cgctgacgga 240
cagtgaccgg gccacaagca agctgcccc actgatggcc tgggccatgg agagcaaggg 300
atgggcg 307

<210> 17382
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C10

<400> 17382

aaccacgct ccgcccacgc gtccgggac gaggtgctcg tgatcggcta catcgagttc 60
cagcgcaacg ccgagctcga cccggagaag aggctgtacc ccggcggctc ctacttcgac 120
ccgctcggcc tggcggccga ccctgagaag aaggagcggc tgcagctggc ggagatcaag 180
cacgcgcggc tcgccatggt cgccttctc ggcttcgccg tgcaggccgc cgccaccggc 240
aaggggcccgc tcaacaactg ggccaccac ctgagcgacc cgctccacac caccatcttc 300
gacacgttcg gaggttctc ttaagcccgc cattgctccg ccccgccat cgagcggccg 360
gaacgtgttc ttggatta 378

<210> 17383
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C11

<400> 17383

accggacgcg tccgcccacg cgtccggcag cactgcgagc cccacagcg gcgctacccg 60
ctcgagaagg gcgttctctc acgttggtgg cctaccggca acaacaattg gtggccgcaa 120
tccggaattc caatggccaa gggccaacc ccttcaaa 158

<210> 17384
<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C12

<400> 17384

cagacacgtg ggcggacgcg tgggcgccgc catgcatcat caccagcagc cgccgcagca 60
gcaccacagc tcggcgtcag cggactccga cgacgcacac attccatggg ttctcggggg 120
ggaggttcag cagcatcatc atgtacctgc atggaagcg 159

<210> 17385

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C3

<400> 17385

gtcgacggac tcgtcggacc actagtccgc ccacgcgtcc gctttaacaa gcttgtctct 60
gaagtgaatg ctgctaccct cgatactgat ctaaagtgtg tggcggctcc tccattcatc 120
tatatcgatt aggtcaacaa ttactaacy ggtcccatg aggtttctgc tcacaatgtg 180
tggattggga aacgaggagc ctacaccga tagatcagtg cagaacaact gggggacatc 240
agttgtcaat gggttattct tgga 264

<210> 17386

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C5

<400> 17386

aggacgcgtg ggcacggccg agccccgaca ttctaccgca ctccctccgc tgcacccctt 60
tccattctac cgccggcgac gccaaagttc ttgggcctcc tcatcggcga cttttccgcc 120
ggcgacagga aacaacgaac caaaccactt ctctgtccag aggcgtcccg ctctctctt 180
cgccccctgc tgttgaagat gaggaacctc aagttcaatg agcagaacct cctcagaagg 240
gacaatttct tggagtacaa aaggaggggc ggccaccgca aggcgctcgt aacacagggc 300
tacggcccct tggaaaggga cgactacaag aagtacaatg ggatatgctt aatgggtgaa 360

aagctcgтта аааtcатааа gcagatg

387

<210> 17387

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C6

<400> 17387

acaggataag tctaagctca cgggggttggc cttcgggtcct agttatcagc ctgcccccttc 60
aacaaaagga aagccatcca agttgcataa aaggaaacat cagattgggtt ctctgtactt 120
tgagatgaag tcaaaggaga tggagcttgc ggagaggcgt tctaaggga ttcttacgaa 180
agcagaagct caagcaaaat atggctggtg agggaggatg taaccgaact cagatacat 240
gtgtgggaac cgtagaattg agatgcgtga aattttgttg cacatttt 288

<210> 17388

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C7

<400> 17388

aatccgtacc aaaacttact tggatggagc aatacttaaa gaggaatgg agcgggtctgc 60
tgatgtgctg tctgctggtc tattagaagt tgcaaatcct tctctctcaa gtagattctt 120
cctaaagcag cattggactg atggataaga tgatgtaaaa gactctatta agcacaggcc 180
cttgtgggaa tcttacatgc ccaaaaataa taaaggaagg agaggaactg gaaagaagaa 240
acatggaagt ctgtacagaa cttatgggag cagagtgatc ccagtttttg tattatcact 300
gggcggtgtc gatgctgaac ttctcatgga agaggagatt cttgtttgga caagtaaaga 360
tggtt 364

<210> 17389

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C8

<400> 17389

atttcgctgt gaattggatg tataactttg accattgata tcttggttaa tcagacgggtg 60
cattgtaatc ctggcctc 78

<210> 17390

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C9

<400> 17390

accacgcgtc cgcagcggca tgcttctgtc ggctacaag gagatgggcc gtcagctgtc 60
ctacttggtt gaagcttccc attctatgag cgttttttct aaagcggctc caaattgccc 120
catcacacag ttttctgacc gccagataa tttgaatgat tcaggggatg gtggaggagc 180
cccagtattc aaatggttct ctgtattaga atttgagagt cttgccagg agcttgttca 240
gatgtttgtt tcagagcaaa agttgaagag gctgctactc ttggaatttc tctcgattgc 300
tttaaaggaa ggtgtagaac tccagacatc attaaattgg ggtgatgaac tatatgatgg 360
tgaatcaaat aaacttcaga gtattggcct tcagtcagga gatgcctact caccgcctga 420
aaa 423

<210> 17391

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D1

<400> 17391

agctcttaca agtccgcgtt ccagcgccag gttgtcccga gcagccgggc gtcgtcgtgc 60
aggtecgctc gcgcgcgtc cgccgcagcc gccgcgccag ctgctggagg catctccggg 120
catagcagtt acacggttgg tgacttcatg acaagaatgg acaatctcca tgttgtccaa 180
cctactacac cagttgacca agccctggag ctgctgggtc aacacaggat ctctggcttc 240
cctgtgggtt gacatgactg gaacctggtt ggggttgtct cagattatga tctcctagct 300
ttg 303

<210> 17392

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D10

<400> 17392

acgcccgcgcg cccgggtggtc cacgtcccct gtgtctttcc tctgtgtgt gctcgcggcg 60
gccacggcga cgacgacgac gacgaccact acagcaaagc atgagcatcc gtcgccgacg 120
ccgtggccgg agcgtttcca cgcgggtgctg ttcacgaacc tgaccaacta cacggaagcc 180
tccacgggcc cgccgtgctg cgtgacggac ctctactacg actggccgcg gcggcggaac 240
ctgaacctgg tgcggcacca gctgtcggtc gaccgctgt acgacgtgga gtggaacaac 300
ggcaccggct tctacttcca ctccaatgcg tgccgcgtgg agcagttccc cgtgggcgtg 360
ctgccgccgt ggtggctctc cggcgggcggc gccgagtacg tgg 403

<210> 17393

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D11

<400> 17393

aaggacgcgt gggctcgccc tcgccctcgc cctccccgca ggaatctctg tctgtgtcgc 60
cggacagtgt gaaggtgctc aaagtggcag ccaagaagag gaaagtacct gctccggaaa 120
ttctctcggc gctgtccaag atcaagaagg caaaactcga cacatcggcg ttctttgaga 180
cactcgggtg taccgactct ccaggcatga cctggatgct tatcttact gcaaacggtc 240
cgctggagaa agggcactat ttcccagtga cagcagtcca acgcttcgat gctgccggga 300
aacgcatcga gaatgggata tatttggggc ccatcggtg cttgaccttc gaatggaggc 360
tgtcattgaa aaagaaaata ctgcgttcg tcttcaagcg ggttc 405

<210> 17394

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D2

<400> 17394

gtccgaccac gcatccgccc acgcgtccgc ccacgcgtcc ggacaacatg gccgcctccg 60
cctcgaccgt ctccggcctc gccgggcgct ccttggccaa ccgcccggcg ttctccacaa 120
gcttcacaca gggcagccgg gtgtctgcga cgaagcccct gatgagcagg aacctggaga 180
ggaaatggag gatgaactgc atgacgtttc cccgggacgg gctgcagagg gacctagcg 240
tccaccgggtt cgggctc 257

<210> 17395

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D3

<400> 17395

cgtccgagga cgcattggcg cgacctcgcc tagcggccaa accacgctag agttcgcagt 60
tggcaaaggg gaggaggacg aggacgagat ggcgagggat gacgggttcg cgggtgtggga 120
agcggcgctg ctgctggcg tggctgccgt ctctgctgcg gggctggctg gcgtctagat 180
ctccatgcct cgctccgact acagcttcct caagctcccc cgcagcctcg acgagctcca 240
agtcctcact gttcatctgg agggctacag cagtgactac agcatccagg tgctggtggg 300
ctactgtgcc cttgtcatat tcaggcagac gttcatgata ccagggaaca ttttcaggtc 360
cctggctgcc gggggcct 379

<210> 17396

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D4

<400> 17396

ggggcgccca tccagcgcca gggctccttc acgtgcccc gcacactcag ccagaagacg 60
gtcgacgagg tctggcgcg gatcgtgagc ctcaccagcg gcgaggacgc gcatcaggtt 120
gaggctcccc ctcccgtcc cgcgcccag cccgagcccc cgcccgcgc cgcgcccgtg 180

ccggcgacg cgcaggcgca gcagacgctg ggggccatga ctctggagga gttcctggta 240
 cgcgccggcg tgggttcgtga agacatgggg gggcaccaga ccctcctgct gcagccgcac 300
 gcgcaggggc ttttctccca agggaatgcc gtcgcgccgc agaccctgca gctgggaaac 360
 gggatggtgg cc 372

<210> 17397
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D5

<400> 17397

aggacgcgtg ggctgcagtt gctcgttggg gtgccaccac tgctgatatt ctcaggtgcc 60
 agtgctgtat ttggtgcata tgcacttcca aggtttgttc agctcacagt gacgtcttac 120
 tacgcggcat caactggctc gcagtatgct gtttcacaga tcacacggca gatcgaaaga 180
 gctcattttc cagaatcagc ccaggaatct gagtgagttg gttggcattc agtctgttct 240
 attgggggtg caatgtacat ggtatagaaa gacgtttagt gctgcttttg ccgtgttgca 300
 gtacagtatt aagtttactg tgtttcagac agcaccagc gaataaaagt tatatt 356

<210> 17398
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D6

<400> 17398

agctaattgct agaagcta cctatTTTTT ggtgctTTTT cctcctatga ttggcataca 60
 gacatgcata tggatattga taatatgtat tatgaggtac tatcttttat catgtcttat 120
 cctgcctaga tgttggatgg gttttgttat aggattatTT actttgtgga ggattctgct 180
 cggcgtgtga acctctgtct ccgcgctctc gcttgactgt tgatttgact aatttggttg 240
 cttagatgtg gctcttatta aaaaccatat gtggataggc ttgcactaca tacacgggtg 300
 catggtaaac gttgtgacca cgctgtgata atgcatggat tccatcagtt cattttattc 360
 gtcaattgat catgggtg 378

<210> 17399
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D7

<400> 17399

aacatctcaa gtgaagagaa gtagaactag tggagagagg agaacaggag attagatcag 60
ctcgcacgca agccaaagga aaaggcaaga tgcggagccc aaggggtgga ggcggcctgg 120
agcacgtgga tctgattccc ggcattcccc acgacgtcgc cgtggactgc ctggccccgcg 180
tcccgcacgc ctcccaccgc gcgatgcgcc ggggtctgcc cggttgccgt agcgcgcccg 240
cggcgcgcgc cttcgcgtcg gcgcgcgccg cggcggggcg caacgaggac ctggtgtacc 300
tgatgcagtt cgggaaaccg tccgccgacg acggggcccaa tgacggcgac gaggggcccc 360
gcaacgcccc ggcgtacggc gtggcggtgt caacgtgacg ac 402

<210> 17400
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D8

<400> 17400

atctgacaat gccctgaccg ccgcggaatg tcacgccagc ggagaccgac atctactcca 60
atccgaggggt tcttgccccg atgccgtaga agtacgcgag ggggacgaag aaaaacattg 120
gccgttacca cgtgagcgag ccaccagttg accaattgcg cgattcaccg gacaagacag 180
agaaggatgt c 191

<210> 17401
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D9

<400> 17401

atggcgagga aggaagataa actcaaaatc aaggatgagt acaacaatta tagggatagg 60

acagcctata agtttctgtt atttccatct atcctcctcc tactgagatg gtggatatgg 120
gatggatgcc ttccagcatt ggctgttcaa atttaccagg cttgggttact atacctgtac 180
acaagctttg ctttgcgtga gaatgtatta attgcgaatg gaagtgacat tcgtccatgg 240
tggatatatc atcactatct agcaatgctg atggctctta ttagccttac atgggagata 300
aagggacagc ctgattgttc tagcaagcag aggggggtgc aacttttctt gcgctgggca 360
atcatgcaag gcattgcaat gcacttacag aatagatccc agcggcaaag a 411

<210> 17402

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E1

<400> 17402

ggaaatcaat acaatacagt gggccaaga tttactgttg tgaatccaac tgaaagcttt 60
gatccacaaa agatgataca tcaagctgca tatccatctg atcagaggct tccacttcca 120
agaactggct ttcctaattc tcctacatcc agaagaggag ggactgttcc aaattatcaa 180
ggcatatcat cctatgttgg agggccgatg acttatccga caagtccagt gtttcaggga 240
caaaccttgc ctggagtatt gcctcctgat acgagaaatg accctgttgg atttcagtcc 300
ccctcaagaa acatcaccgg atagtcctga gattcaaagg cagcgagaca gacagaagtt 360
tggatgaatca aaaacttgct ctttcttaga agagttgaag tccaacacaa 410

<210> 17403

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E10

<400> 17403

aggacgcgtg gggcggagga ggcggcggcg gcggtggctg cttcaagtgc ggcgagcctg 60
gccacatggc cagggactgc tccagcggcg gcggcggtta cggcggtggc ggcggcggcg 120
gtggtggcgg ctgctacaac tgcggccagg ccggccacat ggccagggac tgcccaagcg 180
gtggcggcgg tggcggaggg aggttcggcg gcggcggggg tggaggcgac cgctcctgct 240

acaactgcgg cgaggccggc cacatcgccc gcgactgtcc cacgtgaggt gtgtccgcgt 300
 ccgtccagcc agccagatcg gatcggatcg ctccaccacc tgctgggtctg atggcgccgc 360
 ccccttctag atctcgctta aaagaacatc gccctctccc tgtgt 405

<210> 17404

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E11

<400> 17404

accacgcgtc cgggggaagt tcttcaaaat agtgaggctt ggttggagac tatggttgg 60
 ttcagttgct atcggccttg tgagttggcc cctggcttat gtgggtaaata ttattcctgt 120
 gcccgtaaga cctcttccgg actatttcaa gcccgcgtgt tgtcggaaac cgccgcgccg 180
 agacgaggag gaaggtgggc agagctaaag cgcaacgagt gggcagtgt aataggcacg 240
 tgataaaaaa atggagataa attgcactgg ttgattccat ggtagcagca tcctggggat 300
 gtacgcataa gatggcaggt agtcggcctc gtcgttttct tctaggagaa gcagtcggaa 360
 gaaaagaagt actatacaga agccaaactt gtctaaccct atccagctgg tgtg 414

<210> 17405

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E12

<400> 17405

aaaggctgtg tgcgtcctgc gccgataacg cgatgggtgtc cattgtcacc gaggtatggg 60
 cgctcgctgg atgcggccca gcgtccaagg cggcggcggt agcggtagcg gcgcatgagt 120
 tgccggcgca gcattcttct cctgccgcag cgggaggagg gaacgccaaag aacagagccg 180
 tgccagtgtc gttcagaggc gtcagcagcg gcggtggcca ggaccagcag cgtgaggccg 240
 ccgcgtctt cgtcggggcg cggcgcggcc tcgcctcgtg cgcgctcagc gccgtcgccg 300
 cctcgttctc cgcccgcgt ggccgccccg cgccg 335

<210> 17406
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E2

<400> 17406

gtccaccgac cegtctgatg acgaatgggc tgcttctccc cacggcgac gcgcgcacca 60
tcttctgcgc gccgccagcc ccgcttggtc tggcgcccg gcgccccag ccgtcaggcc 120
gtcaccgagt ggggatcctt gggcacctgc acgccccag cccgtcaacg cttggagacc 180
cgcgcaaccg cggc 194

<210> 17407
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E5

<400> 17407

gcgagctccc agtctccac tccatccatg gcgatcgcca ccactacctc ttcctcctcg 60
ctgaccattc gtctctcca cccgaacccc aacactaacc ccgtctccag atctctccag 120
ctcctcagta gcaggaggtg cgctcgtgcc gccgtagccg gaggcgcggt gccttacggg 180
gctgctcccc ggcgtgggat ttggtcgatc agggatgact tgggtggtgcc gaggtctccc 240
tactttccag tggattccgc ggcggggcaa gagcgtgggc cgtcgcccat ggtgatggag 300
cggttccaga gcgtcgtcag tcagcttttc cagcacagga ttatccggtg cggtggtcct 360
gttgaggatg atatgggcaa ca 382

<210> 17408
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E6

<400> 17408

acgagctaca ggatggcgac attatcaaca tcgacgttac tgtctactta aacggatacc 60
atggggacac ctcgaggacg tacctgtgcg gagaagtcga cgacgcaact aaacaactcc 120

tgaagggcac tgaaaagtgc atgatgcgcg gcatatcagc ctgcacgcac ggcgccaatt 180
tcaaggaaat ctgccaaaga ataaatgagc acgcggagaa atatgggtac ggcacgcacc 240
ccttcctggg ggacgggggtt gggaggatgt tccactgcc a gcccatacata tgggatagct 300
accattacga gccccgggttc a 321

<210> 17409

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E7

<400> 17409

aaatccatgg accatgcatg gtgctctggt cgatgccgta cgtgtgtcac tgatacaata 60
ctatttttagt actgatgcta gtcacatcat atacgatcg agctcgccac tgcgaagtct 120
gagataatgc atgtatgctt gacgggggaga tctgaggaaa gataatttct atatatgcat 180
gtttcgaaga a 191

<210> 17410

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E9

<400> 17410

ggcagcaaag agctgtctgt actggtagac aggtcaattg gaggttccag tataaaggat 60
ggacaaatag agctaagtct acacaggagg ctactccatg atgatgggaa aggcgtcgcc 120
gagggcgctaa atgaaacagt ctgtctcgat aagcaatgtg aaggactcat tatacaagga 180
aaatactatg tcaaaataga cccacaagga gaacgagctc ggtggcgctc gacatttggc 240
caggaaatat actccctct ccttcttgct ttcacagagc aggatggagg caactgggcg 300
aattcacatg ttgcaaaatt ctctgcgatg gattcaactt acagcttgcc tgataatgtt 360
gcaatgctta cccttcagga gcttgaagat ggaagtgttc tccttcgggtt tgctcatcta 420
tatg 424

<210> 17411
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-F10

<400> 17411

```
aggacgccat accctagatt ggagcgcacc acgggcgccg gcggccggcg gcccgccacc   60
ggtgattgac gccccctcct cggccccag cgcggcgagc aggctatttg aggagatgcc  120
gtcattgtca tccttactct ctggctccaa tactgcgagt gctgagcttc ctctaattccc  180
ttgcaagctc tgcaatgggg tggtgattga gcgggtctcc aaacaaccag aaaccacgtc  240
gaggaagttc taccggtgca gagccaagaa aacggatggg tcttaatgtg attttttcca  300
ctggcaagcg agctatgttg ttttgtaaat cgacgatggg tttgtcagtg gtgatcgacg  360
ccttgagttg ttaatgatcg cacttaatga tcatggcaaa gccgttgaat ctct      414
```

<210> 17412
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-F11

<400> 17412

```
gataggtgta aacacagcta tatactcgcc ctccggagca tcactctggtg ttgggttttc   60
cattccggtc gatacagttg ggggcattgt ggaccaactt ataaggtttg gcaaggtgac  120
aaggcctatt ttgggagtaa aatttgcccc cgatcaatct gtggagcagc ttggattaag  180
tggagtgctt gtcttggtg ctctccaaa cggaccagcc ggcaaagcgg gtctgcagcc  240
aaccaaacga gatccctatg gtcggcttat cctgggtgac ataattacct ctgtgaatgg  300
cacaaaggtg acaaacggaa gcgacctgta ccggatactg gatcagtgtg aagtcgggga  360
aacggtgacc gtggaagtcc tgcgtggcga tcataaggag aagatccccg tggtcct    417
```

<210> 17413
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-006-Q1-E1-F3

<400> 17413

gacaacctga tcagggttcag cattggagtg gaggattttg aggaccttaa gaatgatctt 60
gttcaggccc tcgagaagat ataagctcca atccatttgc attaataaaag ttatgagggtg 120
atgggtgtct ggatcttgta gagatttgtg atgatacatg agctgttgac tgcgattaag 180
ttctcttgtg cttattttat tctttgaatt caataagctg tgggtgctgc atcttgcattg 240
tagtggttga ctttaatttta cttgtcaaata tacaatagtt tgggtcccatg tacttgtgtc 300
cgcgctccg cggttgtgcc cctagtgttt ttgtgtcatt tgctgtgtan tgtgagatta 360
aggcacgatg tccttaataca ccataataaa tccatgcctt aaatg 405

<210> 17414

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-F5

<400> 17414

agcgtgggag gagcttagag ccaagttgga agagaaagag tggatctcgc agaagcagat 60
gatcatcctt ctcaaccagg ccaccgatat catcaacctc tggcagcagg gtggtgggaa 120
cctgtcgaca tgagtccttc cccgccctgt tctttcaacc gtgcaaagct tgcgttttgt 180
tggtttcact acaggctctc tctgttggtta atgttaaaag tatggtacat ggccttgtag 240
atcggttcaa actgttctca ggtatggcct tttccatgga aaaa 284

<210> 17415

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-F6

<400> 17415

atTTTTcaac aaccgtttgt cacatcggtc cttgaccgct acagaggaaa acgtgttccg 60
gttttagctta gtctgtctat atttcaacat acttccctca gaaatatcat gcggttatgg 120
atatgttccg tccttgctt tttctttaac ttgtttaact ggggtgtaaga aatttgttgt 180

tgggtgtgtaa aataaccctc aaccgtgggt ttccacagac cagaatgcat tttccccgat 240
 aatacattga agaaagtctt catgcaagcc tctttgtggg ggaaaatgaa gtcttaagga 300
 tgttctgaaa gtagtgacta cccatcatgt cctttgtaac att 343

<210> 17416
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-006-Q1-E1-F7
 <400> 17416

accacgcgtc cgcgcaacgc gagcagcagt tgcattggag gcgaggagga gccacgccgg 60
 ggctcaagga atggccgctc tccgccacct cgctgccggc cccacctgcc accaccacca 120
 ccacggcgtc gcggcagcca ccgcctccct cgggctccat cgctccccc tccccttccg 180
 cccccttcgc tcccgctccc gtccttcac cagggtttat gcgatctcca gcagtgcacat 240
 cagggtcggc accaacgtcg aggtcgacgg cgcgccatgg caagttctag agttcctcca 300
 cgtcaagcct gggaaaggcg ctgct 325

<210> 17417
 <211> 185
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-006-Q1-E1-F8
 <400> 17417

aaccacgcgt ccgcccacgc gtcagcaggg cgcccgccg ggtccatacc cgcggctacc 60
 gctgccgtcg tcgtcctcct cgtcagctgg ctacaggcac tccaaatccg tgtccgtgaa 120
 aacactcgcc ctgttcggca aatccaaagg caagaccgcg cccgcgaaaa aggatctgcg 180
 tccca 185

<210> 17418
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-006-Q1-E1-F9

<400> 17418

cggcctgtcc agcgccgaga tcaccgacgt cgtgaccagg gaccccaaag tcctctgctc 60
cgacgtggag agatccctca ccgctcgcgt cgccgagctc accgacctcg ggttttcacg 120
tccggagatc gtccgccttc tcctcgttgg catgaaccac ttccgccata gctcgtttcg 180
cctcaatctt gagttttgga ttctcgttctt tggctctctc gacgagctca ttccggcgct 240
cagaattaac gccgctctcc tcagcacaag gattgaggag gtctgcaagc ccaacttgga 300
gtccttcaa gagtggtgga taaatgtttc tgatctcaa cagcttcatg tcccggtgctc 360
tcaccagga ccctaagagc ctgcaggaag ctttggctcg ccttcatgag ttcagaatcc 420
agccggg 427

<210> 17419

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G1

<400> 17419

aacacgcac cgcctttgtg ggctgcttca gccgtgttga tgcacaagtg ggaggagacg 60
cggcgaccga agccaaacct gtggctccag acaccgtggg ctcaacagcg gtggttgctc 120
ttgtctgctc atcgcatgct atcggtgcca actgtggcgc tttccgtgga ccataaacca 180
aacacggaag atgagtatgc aaggattgag gccacgggtg gcaacgtcat caattgggaa 240
tggctatcga gtccccctg ttctcgccat gtcccggtca attggggaca gataacct 297

<210> 17420

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G10

<400> 17420

ctctctctc gcgccatctc gttgccacc gtcggcatgg tcgtccccta cggcgcttc 60
ttcgtccctg ccggctccgg gaacgccggc ggccgggacct acgcgaagga catgctgggc 120
aacgacatca cgggtggaggc gtggctcaac acgcacggtc tcaacgaccg cacgctcgcg 180

caggggctca aggggtgaccc cacgtacctg gtgggtggagc aggacaagac gctggccacc 240
 tacgggatca acgccgtgtg cactcacctc ggctgcgtcg tgccgtggaa cggttctgag 300
 aacaagttca tctgcccctg cgactgatcc cagtacaaca accagggcac tgtgggtccgt 360
 ggaccgggag cctctgtcgc tgg 383

<210> 17421

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G11

<400> 17421

ggcgaggacg cccgcgcgcg cgcgggaggt agcagtcggt ggtgcgggtg atcaagcgat 60
 cccggaggga gcggcgctct ctcacccggc ttcggtttcg ccgactcgga tcttctcgcg 120
 cccgagcagg acaccatgga tggaggcagt tgggtgtacg ggaacgtccg cacgccgaac 180
 ccagtcattg cgcaggcggc gtccatatcc gctagccccg ggctaaccac ctcagccaat 240
 catgctcttg aaagcgagtc agactccgac agcgaatcac tgtatgatgt agagggagtt 300
 ccatacgagc gaggtaacac atccattgag acgaagcgaa taagaaggat ggtgtccaat 360
 agggagtctg cgcggcggtc taggaagagg aaacaggcac agttgt 406

<210> 17422

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G12

<400> 17422

atcattttga atttgaatag ggtcccttgt tttgaatagg aactttcttt ctagtgctca 60
 tctgcacaaa tagacagaag ttgtacttcc tagtgctcat ctgcacaaat agaaatgatt 120
 ggatcacgtg tcgttttagaa aagatggaat aatcctgaaa cacactagac tgaatcatct 180
 atgtgttgca tgacgtggac tgtgtcgttc ttattattac gcactaacat agctgaacta 240
 attctcttga cctcgagttg cctgggtgcc tcttcaacct tcatgttcag aatagcattt 300
 gttgtgagat atcatctgtt atcttggtat atgtcttcag gtctgctctc ttggagcaga 360

caaacagctc agagtcacta agttgtttgg ttaaattgtct gcaggattta atggggggggt 420
 aaat 424

<210> 17423
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G3

<400> 17423

aagacgcgtg ggaccaccga ctcagcgagc gagagcagca cacactgcac gcagctagct 60
 aggagcagca gcagcggcgg cgatggcggc ctccatgata tcctcgtcag ctctggcggg 120
 ggcgcctcag ggcctgccgc ccctcggccg ccgcgcctcc tccttcgcgc tcgtctgctc 180
 caagaagaag atcaagaccg acaagcccta cgggattggg ggtggcctga ccgtcgacgt 240
 cgacgccaac gggagaaagg gcaaaggcaa aggcgtgtac cagttcgtcg acaagtacgg 300
 cgccaacgtc gacggatata gcccaatcta caacgaggat gactgggtctc ccaccggcga 360
 cgtctacgtc tgtggaacca ctgggcttct ga 392

<210> 17424
 <211> 132
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G4

<400> 17424

attgtcccga ctctgaacc ctaccgatct tcccctgctg cagccatggt gaactccgcg 60
 ggagctctcc actgccgcg gtcccaccca gttctaccgg tcccgcgctt cgctgggcaa 120
 ccccgatgaat gg 132

<210> 17425
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G5

<400> 17425

aacacgcgtc cgcccacgcg tccggcgatc tcgcctcgag taactagtgc ctgcgcgcgc 60
 gggggcgact gcgcgcgcgg tcagtcagtc ttcggcgtgc ggggcgcgcg cgagatctcc 120
 tcacgggtag gggagaaaat cgggtgaaggt ccgcggggccc tgatgggcgcg gggggctctcc 180
 ggtggcgccg ccggtgggga tgcggcgggc gcgggaaactt agcccggtgt tctcaacgtg 240
 tacgagcgtg acgccgggtca acaactagcg tccactgggg cgggcttggg atcttgcaact 300
 ctggcgcca agttcatgga tcggagtaca gttttggggc gcatga 346

<210> 17426

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G6

<400> 17426

cgagagagcg ctggtcatgg cgtcactgtc tgtcgccgcc gtggcggcca ccatagcgat 60
 gccaaagcagc aacggtggga gagggcgccg tctcagggtc gcgtccatgg gcaccagaa 120
 gggccagaag ccgacgccc aagaccgtctc ccgcacgaga agatctggca cgacgacagt 180
 gttcccgggtg ggccaacccg gcccgcgggc ggcgacgacg agcggcaaag cgccggttaa 240
 gctgctgacg aacctggaca acctgcccgt gctgaccaa gcgagcgcg cgggcctgct 300
 gtccgcggcg gagcgctcgg ggctgtcgct gtcggccaag ggagccgctg gggcct 356

<210> 17427

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G7

<400> 17427

cccacgcgtc eggccacac tcgtctctct cacgagccac agcccacagg ctagctctct 60
 agcggctctag ccagtcacg cagcgcaggg atggcgctgt tcgccgtggc aacggccccg 120
 tcgctagcgg ccccggcagc caacacgagg cccgccgcgg gcgtcacgta cgtggagggc 180
 atgaacgcct agagcggcct caaggggctc aagaagggtga ccatgctcgg ggtgcgcaag 240
 accgccgacg agtccttcgc caacgtcctg gcgtcgctca gcccgcggg caagaagcgg 300

ggcggcaggg ggtt

314

<210> 17428

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G8

<400> 17428

aaccatctac cagcgactca gcgagcgaga gcagcacaca ctgcacgcag ctagctagga 60

gcagcaacat cggcggcgat ggaggcctcc atgatctcct cgtcagctct ggcggttgcg 120

cctcagggcc tgccgcccct cgggcgccgc gccgcctcct t 161

<210> 17429

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G9

<400> 17429

aggacgcgtg ggttcgcttt ccgccaccgc cggatcccca caccgccacc cgccgcctct 60

aaccccgcgtg tcccgtcttg tgctctgacc tcaccgctgg tcagtgtcag accgcatgga 120

ccccaccgac cagtcgccg agggaggtgta ctccgtgtgg gcccttcgc cgagagcccgt 180

ccgtgatcgt ttccgccgca tcatggaggg cctccgcgt gcatacggcg gccccgcctt 240

tgagccgcac gttaccgtcg tcggtgactt ccgcggaacgc cgctcggaag ctgtcaaggt 300

gctccgcgcc gccgccgcca gcgtccaacc ctacactgct cgtgtcacgg gggttgcccg 360

tggcagcttc ttctaccagt gcgtctacat ccttctcgac cccaccgccg aagtgggtggg 420

<210> 17430

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-H10

<400> 17430

ttccactaga acgtggtgca tcagcatacc tgctgtgcc gccgccgccg ccagttgttt 60

gctgtgga aa gctagatgca tgcgtgttgt aaaggaacct gaagcgttgc atcggtcattg 120
attcatgcat ggccagcctg ctgcctgtaa caacaaacta gtattgatct tattgagacc 180
ggaaactgta ttgcacatgg taaatcaatg tacaattcct ccct 224

<210> 17431

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-H11

<400> 17431

acagcagaga gattactacg atccaacagt tctagagcaa gagagaggaa gacacaccgc 60
agagttagca ggctaataac ttgcaggagc agcaggaatg gcggcgacgc gtcgcctctc 120
ttgctttctc ctgcgccgtgc ttctggcagg agtggccgct gccaccgcct tcgacgaagc 180
ggctgctgcc ggcttcgggc ttggccacgg cgcgcgtttc gcgcgcaagc atggacgtgc 240
tgccgctgag atgccccagc cggagccaca acctaaaact aagccggagc cgcattatgca 300
gccactgccc cagccagaac ctaaaccgaa acctatgcca catccagagc caaagcctga 360
acctcaacca tagcccaacg ctga 384

<210> 17432

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-H2

<400> 17432

ccggcgctga aaaaaccata ccaccaaaca agtgccagcg ccctctcaca gtcgccgcaa 60
tggggagcaa cttcatcatg atcaagcctg accgggtcca aaggggcctc attggtgaga 120
tcatcagccc ttttgagaaa aaaggcttct acctcaaggc cctgaagctt gtcaacgtgg 180
agaggctggt tgccgagaag cactaaaccg atctgcctc caaacccttc ttccaaggcc 240
acgttgacta catcatctct ggccctgtgg tggccatggt ctgggatggc aagaacgtct 300
tcacaactgg cccaagatc attggcgcca ctaaaccctt ggcttctgag cccggcacca 360
tccgtggcga ctttgctgtc gacattggca cgaatttcat tcatgga 407

<210> 17433
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-H3

<400> 17433

agcaagcgcg tgcgacaggc ttcaccttca ccaagcctgc acctggccag ctgggtcgac 60
gggctggcgg cgcgcgtcgt ttgcctcgcg tcgccgagct gcgggcaggc cgcaccgggt 120
gggactccac ggggctgtcg ggtactggtc cgtcgagcgg gagccgtagc cgggacagga 180
cctgtccgcg ccaaccttct tcccgcgggg ccgcgcatga caccgagccc tacgggacgc 240
ctggcgcaac atccgtgccc gccgaagcaa ctgcctgggc caaaggag 288

<210> 17434
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-H6

<400> 17434

cgggtccacc cacacgtccg atcggaacgt tctgagagcg caactgaaaa gattatgagc 60
agcatcatgg ataccattgc tgacaacctt cctaagcaga agtctgggaa atttgatcca 120
ggttcagtct ctgacaaagt gaagaataaa ctgtttggtc gtcagaagac cttgcatgga 180
gttctgggtg gtgggaaaac tgctgatgtg ctgtt 215

<210> 17435
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-H9

<400> 17435

accacgcgtc cgacgaagtg cgagcgaccc acgtccacac gacacgaacc accaccacca 60
accagcagcc gcaccacgca cccagcgcaa agcgatggcg tcgctcacca tgatggcgtc 120
cttcgcgcgc gtggcggtgg ccgcgccttc gcgcgcgggc accttcgcgc tggtcaggtc 180

cgccaagggtc gaccgctgcc aggagcccg cagctagca gcagccgagg ccaggcccg 240
cgccgacgga cgccgcgcgc tcatgctcgc ggctgctgcg gcggccgtgg cagccatcgg 300
cggcgccggc gccgccatgg cgggccccag gaacgggacc cccgaggcga ataagaagta 360
cgcggccatc tgcgtcagca tgcgcaccgc caa 393

<210> 17436

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-A10

<400> 17436

gggtcgacac atgctgtctag accgtgtcat gttcttgaag gaacatttgg aagaaatcca 60
ctcgtataca gcatccatt ctggttgcag cagctctaag gagttatggg gcttatcttg 120
ctgatgggtc tgagtacagt ggggattatg gtgaagctgg tacgacagag ttcctgaagg 180
actttcatcg gcggtggctt caggttcttg ctgaagcagg cccggatttg attgcttttg 240
aaacgatecc cagcagattg gaagctcagg catatgttga actccttgag gaatgtaaca 300
ttaatatccc ttcattggctt tccttcagct caaaagat 338

<210> 17437

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-A11

<400> 17437

cccacgcgtc cgctctagtc ctctcgcac cgcagcttcc ccagccagct agggtttgca 60
gatgacgacc gcggcgcgcc ccacctgggc gccggccaag ggcggcaacg agcagggggg 120
caccgcacac ttcggccctt cccagaagtt ctctctccgc gacctcgccg cgcacacctc 180
cctcaagcca agaaaagacg gtcaacagac ccaagaggag ttacagaaga ggaatctcag 240
ggaggaactt gaggaacgtg agcgcaagca ctactcttcc aaggataagt cctatgccga 300
agaaagagac cggcggaata gctctagcca tctactctta gaaggttcaa agagagagac 360
agaggataag atagttccac gagaaatcga tgctgatgac tccgaagtgg agcctaaaag 420

cgatgacgag aacgatgaag atgatgatga cgacgacact g

461

<210> 17438

<211> 488

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-A12

<400> 17438

cccacgcgtc cgggcgaccg ctacgtact gagctcctcc ttccgcatgc ccgccgcgcg 60

ccgtagggcc tcctcccctt cctccgcctc attgagcttc gccacgtcgc agctcgccgg 120

cctctccctc tccgccggcg ttgcaactcc aaccgccgtc gccctcctcc ccaagaggca 180

gcagctccag cccaactgtc cgccggcgtgt gtgcccgctc acggacaaga agacgaaccg 240

ggcgaacaag gtgtcgtttt ccaaccacaa gacgaagaag cagcagttcg tgaacctgca 300

gtacaagaag ctgtggtggg aggcgggcaa gcgcttcgtc aagctgcgcc tttccaccaa 360

ggccctcaag accatcgaga agcacggggt cgaagccgtt gcgcgcaaag gcggcatcga 420

cctcaacaag aagtgagcaa gaagtgagcc catccgaaga gcaaccaaac taatgttggg 480

ggggaact 488

<210> 17439

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-A9

<400> 17439

gcatacgtca gaacagacat cagcacaacc atggatgcac ccagacgcgc cgccgccacc 60

tgcaacgtc agcacggtgt gcaccacgag aagctcagcg ccgtcgact gcaactgcag 120

gcgtgtagcc acaccatcgc cggcgattgc gggctctcgc tcacaagcga aacctacgtg 180

ggtcgcgcgc gctgagccga cgtggcgctc tcgcgagcag cggccatggt cct 233

<210> 17440

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-B10

<400> 17440

cacgctacgg ctaatgcggc cgggtgccggc gcccctcccc cagtgccgac gccgtggccg 60
gagcagttcc acgcggtggt cttcaccaat ctcaccgata gcggcggccg gctgcagctg 120
atcgacctgt actacgactg gccacggggc cgcaacctca acctcatccg ggaccagctc 180
tccagcgacc cgctctacga cgtcgagtgg accaacggca cctcctactt cttcgactcc 240
gggtcctgcc gcaccatgcg tttccccgtg gggatcctgc cgctgactg gctcgccgcc 300
ggcgccgtct atctcggtcg cgagcaagt 329

<210> 17441

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-B11

<400> 17441

gatatgtgca agggagtgca gtatctcaat gaaatcaagg attctgttgt ggctggtttc 60
cagtgggcat cgaaggaggg tgcactggct gaagagaaca tgcgcgggat ttgcttcgag 120
gtctgtgatg tcgttcttca tgctgatget atccacaggg gtggtggcca ggtcattcca 180
actgccagga gggtcattta tgcttctcag ctcacagcca agccaaggct gctggaacca 240
gtttacctgg tggagatcca ggccccagaa aatgcactgg gtggcatata cgggtgttctg 300
aaccagaaga gaggacatgt attcgaggag atgcaaaggc ctggtacccc gctctacaac 360
atcaaggctt tcctccctgt catcgagtcc tttgggttct caagccagct gagggctgca 420
acctctggtc aggcgtcccc cagtgtgttt ttaccactgg gacatgatgg gctcgg 476

<210> 17442

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-B12

<400> 17442

aaatgctgca gtgcagggtg ttcgcctacg ccgacacgca gcgctacagg ctgggaccaa 60

actacctgat gctgcccgtc aacgcgcccgc gctgcgcgca ccacagcaac caccgacgacg 120
 gcgccatgaa cttcatgcac cgcgacgagg aggtggacta ctacgcgtcc aggcacgcgc 180
 cgctgcggca agcggcgccg cccacgccac tgccgccag gccggtcgcg gggaggaggg 240
 agaaggcaac catacgcattg cccaacgact tcaagcagcc aggggagagg taccgctcct 300
 gggacgccga ccgacaggac cgattcgtga ggcgattcgc cgactcgctc ggacacccaa 360
 aggtc 365

<210> 17443

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-B9

<400> 17443

cccacgcgtc cgcgtacgta cgtagatcga tccatcgatc gctagctagc tgacgaccat 60
 ggcgcccttc tctctgccc ccatcacgcg ccttctcttc acggccgcgc ccgctcgcgc 120
 agtggtcagc aggaggtcct tcaccgtgag tgctctcttc cgcaaggcca ctgccaccgc 180
 cgccgtggcc gttgccgcca gcgtcctgct tgccggcggc ggccgcatgg gccaggaggt 240
 gctgctgggc gcaggcgacg gcgggctcgt cttcgagccc agccagttca cggtaaggc 300
 cggcgacacc atcagcttca agaac 325

<210> 17444

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-C11

<400> 17444

agaacatggc cgctccgcc tccaccgtct cgggctcgc cggcgctcc ctggccagcc 60
 gcccggcggt ctccaccagc ttcacgcggg gcagccgggt gtcggccagg aaccccctga 120
 tgagcaggaa cctggagagg aatggcagga tcacctgcat gacgtttccc cgggactggc 180
 tgccgagggc cctgagcgtc atcggcgctc ggctcatcgg ctggatgggg ccgtccagcg 240
 tcgcccgcct cagcggcaac agcctcacgg ggctcgtctt ctccagcatc ggccaagagc 300

tgggccactt cccc

314

<210> 17445

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-007-Q1-E1-C9

<400> 17445

acgattagtt aacatggtgg ttaaccgtat tatgaaagac ggaaaaaat cattggctta 60

tcaaattctc tatcgagccg tgaaaaagat tcaacaaaag acagaaacaa atccactatt 120

ggttttacgt caagcaatac gtagagtaac tcccaatata ggagtaaaaa caagacgtaa 180

taaaaaagga tcgacgcgga aagttccgat tgaaatagga tctaaacaag gaagagcact 240

tgccattcgt tggttattag aagcatccca aaagcgccg ggtcgaaata tggctttcaa 300

attaagttcc gaattagtag atgctgccaa agggagtggt ggtgccatac gcaaaaagga 360

agcgactcat agaatggcag aggcaatan agctcttgca cattttcggg aaaccatgaa 420

ca 422

<210> 17446

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-D11

<400> 17446

gaggtggtgg cggcggtggc ggccacgtgg gggcccatga ccgacggcgc gcgcgtcgag 60

acggcgccca ggctcgccca atggcgcgct gaccgctcc cctgctacac ctaccgcaag 120

tcactccctt tcctcatcgg cctctggaac tgggtgcatat ctgtggagag aaataacagg 180

cagacctgtg ttaagctctt tgcagagaat acaagttctc tcaagaacgg ttcctcagcc 240

ccaatagctt cctttatcgc caaacttatt gtatctcttc cacctaatac gcagaccata 300

gtccaccag gaatttttga caaacagctg aaataccacg gttttgtgtg gacaatcgat 360

agcacctca ctgggaggtt tgtgaatgag atagaatttc gtgacctgaa ggtcgctgat 420

tcgtctggcc gcgaaccggg ctccaattgg gcctcccc 458

<210> 17447
<211> 513
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-D12

<400> 17447

caatcacagg ccgcctgtgg attcacgcag catccaaggt tcctgacccc gacactatca 60
aagccatgga ggattctaca gggagattta tgccgtcgat ggcactactg gcatcaagtt 120
ccctgatcat taccctgtct cagcctcctc tggctgtgtt gaggtggtag gctgcctcag 180
gtctgaagag cttgtttgct gggaacatgt gcctgagtct gtcaggcttg aagggctgac 240
tgacttttgt tggctctgtg aaaatccaca gaagttggtg gttccattcg agatgcgtgg 300
ttaccagggt gtctacaatt tagaaagaag gatctatgat ggggctgtga ggggcctttt 360
acctgttcaa ggtccactgc ctgtcaagtt cctctctcca gatcccagag accccttctc 420
cttgaagcca agatctctta catttgctgc ttccaaaacc actctgcaaa aatctggaag 480
tgttgctgca gcaataaccg gggctcgagc tgc 513

<210> 17448
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-D9

<400> 17448

aagaaatggc tgcaatacct gcagcgatcc cgggctgctg ctcttcgtct cgcctgcctc 60
aacttgctgg cctccctgcc tccacaagca gaaggcgctt caaggtcaca gccatggcgc 120
ccaaaaagaa ggtgaaccgc tacgacgaga gctgggtctaa gcagtgggtc ggcgcgggca 180
tcttcgcgga gggcagcgag gaggtgtccg tggacgtgtt caagaagctg gagcggcgca 240
aggtgctgag caccgtggag aaggccggcc tgctgtccaa ggccgatgag ctgggcctga 300
cgctctctc gctggagaaa ctgggcctgc tctccaaggc cgaggacctg ggctgctca 360
gcctcgtcga gaccgcggcg gggacgtccc cgtccgtcct cgcctccatc tcgctg 416

<210> 17449
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-007-Q1-E1-E10

 <400> 17449

 cagacgcgtg ggcggacgcg tgggtttctta cccaatggag gagcagcatt cacgattccg 60
 gcagtggcaa tggcagtggc gcctcttctc cctcctctca tcccagccgg agctgctccc 120
 gccgccgcgg ccggccaacc atgtcaggtg ggaggagacc gccgccgcgc agctcttctc 180
 cgcaagcctc gcgggagtgc tcaaggagga catcaggtg gcggtggaag acgccaggta 240
 cctcgtcatc cgcaccgagc tggacgccgg caccggcacc ggtggtgccg tcgcggacgc 300
 gaggagcttc gagcggaaagt ttcggtgcc ggggatggtg gacgtggagc gg 352

<210> 17450
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-007-Q1-E1-E11

 <400> 17450

 cacacgcgtc cggcagcagc tgacttacgg gtaggaatta actatattcc taaagagttc 60
 cttttggatc caaggtatgc tgctccagaa caatatatta tgagcacaca aaccccgctc 120
 gctccttctg ttccagttgc aacaactttg tctccagtc tgtggcagct gaatcttcct 180
 gacagattcg acatatatag cttgggcctc atattcttac agatggcatt cccgtcacta 240
 cgaactgata gcaacctcat acaatttaac cgccaactga aaagatgtga ttatgactta 300
 caagcttgga ggaatctggt ggagccacga acgagtgtg aagctcctga agggctttga 360
 catcatggat ttaaacggtg gtatcggatg ggaaatcctc acctcgatgg tccggtacaa 420
 agcacggcag aggaccaat 439

<210> 17451
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-007-Q1-E1-E12

<400> 17451

ggtcgacaca tgcgtcagca cacgcgtctg ctgaactcct gaagcaaaag caatggccat 60
gagagcgctt ccgctgaccc cttccatgag ctctctgttt ggagctcagc aaaccaggcc 120
gagcgggtggc ggccccagat cagtgcagagc ttatgcgaag ggagactagg agggcgacaa 180
gcagtccttg ttcggaagca tcaccgagggc gctggacttc tcgcatgtcc ggtcggaaaa 240
agacgccgag ctgctgtact aggccaggga ttccaccaga cgtggaggga ggatgacgag 300
ggagcagtac ggtgcactta ggccgggagat tgggtggcacc taccatgatt tcgtcatgtc 360
atatgttgaa gtcaacgggc aatacgtgga agagggttgg gtccacagaa cctgcagtat 420
ctgcaagaag gacacaaggg g 441

<210> 17452

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-F11

<400> 17452

tctcacgcat ccatacatgc gtctgcatac tcgagagcgg acgcccgttc gaacgctgac 60
gtggatgtcc tatacgacga aatggaactt ttccatactc tttccaggaa tactgtcttc 120
aaccactgta ctgtcagtac tcgcagctga cgataatgcc atgctaccac actgcgaatt 180
cctttgctcg ttgctttcaa tatggatcgt gtgaccacca acgctgggac cttccacatc 240
atgacctcca tagacagctc tgttaccgag atcatgccga gtcaccaaca gaagtcaccc 300
tgctcaaggc ggacgacacc accgccaacg cccacgtgga gcagctgcac gcgaagttgc 360
tcaaggccac gacctcgcag tcggccctca tcgagatcat ccagttgt 408

<210> 17453

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-F12

<400> 17453

cattcacctg aactcctgaa gcaaaagcaa tggccatgag agcgcttccg ctgacccctt 60

ccaggagctc ctcgttttga gctcaccaaa ccaggccgag cgggtggtggg cccagatcag 120
 tgagagctta tgcgaaggga gacgaggagg ggcacaagca gtccctgttc ggaagcatca 180
 ccgatgcgct ggactttctg cagggtccgtt cggagaagga cgccgagctg ctgtacgagg 240
 ccagggagtc caccagatgt ggagggagga tgacgaggga gcagtacgga gcaactaagc 300
 ggcagattgg tggcacctac caggatttct tcaactcaga tgttgaagtc gacgggcagt 360
 acgtgg 366

<210> 17454

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-G10

<400> 17454

cgctgactc gactttaccc cgctgctccg cgccctctc tcgtgctcgc cgccccacag 60
 ctcgaagccg acgaggtggc ctcagcacac ggcgcgcgag ccatgggagc attatcagcg 120
 aagaccatac agaatgcatt cttggcacia cacagacgga gataggcatg gtgcaagata 180
 tcccagtgat ttttgttctc tcaatacccg cagcatgcat tccgtccagg aatgtagatt 240
 ggcagtggct gattcttcag ccaagtgggt aaataccaca tcgacactat ggacgagctt 300
 caacagacaa gcatacatta gctgcaatgc tgctcaaggg ggcactgttg tgtgttcac 360
 tgagacagtt gagtttccga agcttcagaa tgggagtgag attcgtgggg ttggtgttgc 420
 cggggtttaa ggtgagcc 438

<210> 17455

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-G11

<400> 17455

cacacgcgtc cgccccacgc tccgtcaac ccccgcccc gtcgcggatc gtcattggcg 60
 ccggcctcgc cttccccgtc gctcctttc cactcgctg cgtctctca cctccccacc 120
 ccgggcaccg catctgctgc gcgatccgt cgtcgtctc gcgcgcacc gtcaaactct 180

cgccgctccg cgcgactacc gtcctctcca tggaacgacg gggcacgggc cgtggcgcg 240
 ccgtagtggt ccgctgtcca gggccaggac acgaccatcc aggtctcaga tgatgccaaa 300
 gtcaacatgg ggagtcactc gtgatggaga gcgagcttcc tgtccctggt tgagttctcg 360
 gtgggggatgg gtgcg 375

<210> 17456

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-H11

<400> 17456

cggacgcgtg ggcggacgcg tgggggttcta gatcgcgggc ggccgccctt tttttttttt 60
 ttttaatttgt ctgtgactat gtatttgctg tttctcccag taaatagata ttacagttct 120
 tttcagttct gagacaccta gatttaaaca catacactgc acaccggacc ttttctcgtc 180
 cttattgctc cactatgatt cctgtccttt ctttactaa ccaaaactct cttttccttt 240
 atctttctct catatgagca cttcacaaaa ataagtatat ggatgcagct agtagtaaat 300
 t 301

<210> 17457

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-H9

<400> 17457

agctcaccgc ggtttggctt tctccctct tccgcaccgc ttctcgctcc ggattccgga 60
 ttccctctgc tcgttcccta acgaaggtag ccatggcggg gagaggtaag gcgatcggct 120
 caggcggcgc caagaaggcc acgtccagga gctccaaggc tggcctccag ttccccgtgg 180
 gaaggatcgc caggttcctc aaggccggca ggtatgccga gagagtcggc gccggggccc 240
 ctgtcgatct cactgccgtg ctgagtatc ttgctgctga ggttcttgaa ctggccggga 300
 atgccggacg tgacaaccag aagaccgcga tcgtatcgcg ccacatccag ctgcgcgtcc 360
 gcaagcgacg aataagctct cgcgccttgc tggggc 396

<210> 17458
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-A11

<400> 17458

ctgcgcctcg acattttcttc tcgctctgct cctccgcctc cgctgatcc atccaagaca 60
gggatcgcca tgtcggactc cgaggagcac cacttcgaat cgaaggccga cgctggggca 120
tccaatgacc taccgcgagc aagctggaat cgtccgtaag aacggcttca tcgtcatcaa 180
gaaccgtccc tgcaaaagttg tggagggttc tacctccaag actggtaagc atggccacgc 240
cagatgccac tttgtcgcca tagacatatt caatgggaaa aagcttgaag atattgttcc 300
ttcatcacac aactgtgaca ttccgcatgt gaaccgtact gagtatcagc tgattgatat 360
ttctgaggat ggatttgtga gcctccttac ttcagatggg aacact 406

<210> 17459
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-A12

<400> 17459

gtccttcaca ttgctgctat gaggagggaa cctaaaatca ttgtctctct tttgaccaag 60
ggagctcggc catcagacct cacatttgat gacagaaaag cagtgcagat ctccaaacga 120
cttaciaaagc atggggatta ctttgggcct actgaggacg gaaagccttc tcctaaagat 180
agattatgta ttgaggtact agagcaagct gaaagaaggg acccgcaact tggagaagca 240
tcggttttctc ttgcgataga aggagactct gcgcgtggga ggctactcta ccttgaaaac 300
cgagttgctt tagcaagaat actgtttcct atggaggcaa gggtagcaat ggacattgct 360
caagtcgatg gaacactgga attcaccctt gtttctagtg tgaatc 406

<210> 17460
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-A2

<400> 17460

gggtcgagcc aacgtccggg aagaagcgat cgctgtcacg tcttctctac tccttgccctc 60
cggctccatg acgtggccag caacattggg tctttccctc tcgccccagc atcagcgtct 120
ggttaatttc tgccgcgctg caagaactag gccgctggac agcaagaggg gtagctggag 180
gcgctcttcc agtgccaccg gcggctcgtc gaccgccgtc tcgtcgctcg cagaaagatg 240
ggttctcgac cctgcaggag acggtgactg gcgccacatc ggctaacaaga tcgcgcgcac 300
tggggcgatc gagatagtct cggtggacac cgc 333

<210> 17461

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-008-Q1-E1-A3

<400> 17461

acgcgtccgg ctaagctcta cagctcgagt attgcttgct caccagaaga aacaatgcag 60
tgcaccaaca atggccgccg cctcctcgtc ctcgggtctc ctgctgctcc tggccgccgc 120
cttggttggc atgagcgcca ttttggttaa cttcatcatc agcaacaact gccggttcac 180
cgtgtggctc gccgccactc cggtgggcgg gggcacacac ctcaggatgg gcgggacgtg 240
gaccttcaac gtgccggctg ggaccatctc cggccgcgatg tggggccgca ccggctgctc 300
cgtcaacggc aagagcggga gctgccatac aggcgactgc ngcagctcgc tggactgcac 360
gctgtcgggg c 371

<210> 17462

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-008-Q1-E1-A5

<400> 17462

acgcatactg catacacaac acagagcatc agaaggagct gcgatctgat cgacatggct 60

gcccgcacca tggctatcac ctcccgcgcg ctcatcggca agccggcggc tggcacgagg 120
gacgtcttcg gcgagggccg catcaccatg cgcaagaccg ccgccaagcc caagccggcg 180
gcgctccggca gcccctggta cgggtgccgac cgcgtcctgt acctggggcc gctgtccggc 240
tcgcccccg gctacctgac cggcgagttc cccggcgact acgggtggga caccgcgggg 300
ctgtcggcgg acccggagac cttcgccaaag aaccgcgagc tggaggtgat ccactgccgc 360
tggggccatgc tcggcgcgct cgggtgcgtg ttncggagc tgctcgcccg caacg 415

<210> 17463
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-A6

<400> 17463

acgcgcgcgt tttcccccat cgtctcggcg actcctgagt cccgacctct acgctacagc 60
ggctgtggty atccgtcctc cactcctcct tcgtccattc ctctggtgca aggtttgtcc 120
agctctggcc tctggttctt ctgctttgaa acgtcagtct ctgcctcttc gtctctggtc 180
tgggtgtgccg cgccgtcctg ttccggcagcc tcagctacgg cgccatcccg gtcgaatctc 240
atcgcagctg atccctctgg atcacgtccg cggcaacggc gccatcccg ccgaatctcg 300
tcagcgtaac tgggtccctt ggatctcgtc tgcgcacggc acagctgctc agtctcatga 360
tttaaagcgc agctgggtccc tctggatatt tacttttg 398

<210> 17464
<211> 90
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-A7

<400> 17464

aaataatgtt gttctgaata ccaatatact gtgtatttga tcactctttg acattgaaat 60
gttggtgctg ttgtaaaagc agctttgagg 90

<210> 17465
<211> 421

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-008-Q1-E1-A8
 <400> 17465

ctaattttgg tttgagtttt gtttgaatta tttcaagtaa attcttttta cccttttctg 60
 gttaatttat ttcaaagcac acattcttag tttagttttt tttgtttctg acagatctct 120
 ttcgatacac gttttaacta caatgcctat gtgaatatgc acccgtttcc tattccgttt 180
 ctagaatttt cgcaggccga gaatgacttg cagccttgga ttgctagaga cgacgaacaa 240
 ggccagacga tgtggagagt caaccaacgt atagtgaagc ttatagcgga gctcatgacg 300
 aaccatgaca gccctgaagc qttggtgata ctgcctagtg cctctgaact tctacttcgt 360
 gctactgatg gaatgcttgt tgacgggtgaa gcttgtactt tgccacagct tgagcttctc 420
 g 421

<210> 17466
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-008-Q1-E1-A9
 <400> 17466

ggaagctcat gttaaagata aggtacttac tgatctgaaa gccataatct gtgctcatga 60
 cgcacatcat tctgaagata ttgaaggatg catccgtaat tcaactcttggt ggctgcttca 120
 tgaattacaa attcatccat gcacttacaa gtgccgtcaa gatgctgttg cagatttgct 180
 ccagttgtat gcatatatat agtgcttttt ccgagtcagg gattaccata cagtaacatc 240
 tccatcagtt catatcactc cgcttgactt acgccccaca tatgcctaata atactgtgaa 300
 cattcgtttc atgagtactg catgacatac tcataaaatt actgcttagc ccatcatatc 360
 t 361

<210> 17467
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-008-Q1-E1-B1

<400> 17467

ctgacacacc tcagaagcaa gttcgggttct taacactgtc aggtgataaa aagctgttga 60
ctccgcaacc tcggctaagg acaggatttt tctcagttat ggactctcaa atgataacctg 120
ttgggtgcat ccctgaagca tgcacttctg ttgggtgcagc taaatatggg aggccaattg 180
gttttagatga gagccttaag gtggatttga ttgtgattgg gtcagtggca gttgatccaa 240
gttcaggagc acggttaggg aagggagagg gatttgcaga gcttgaatat ggaatgcttc 300
gctatatggg agctatagat gattcaacca tgatagtaac tactggttgc catgggctga 360
gccagcccac aggtgatgac agcagc 386

<210> 17468

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B10

<400> 17468

cccacgcgtc cgccgccgtc tagctgacat ggctgacact cagttcattg cgaccacatt 60
ccggccagag attgctaaag tggctgataa gatatatgcc gtgagacaca agaatagggg 120
gagcaacatc gacgtgggtg ccaaggagga ggccctggac atcatcgagc gtgatcagac 180
gtacaatgct agctgacgct gctgctgctg tgtattgatt gatctgcagg cagatgctaa 240
cgcagacagg atagttcttg ttgtgttatg gatattctgg cctattgttg tagctgtgta 300
tatgtgtgat gcagttacgt aactattgga ccagcttggt tggcgcatca acgttgtgaa 360
tgtatcagct accaccttgg cttggtacca gctttaatta catttggg 408

<210> 17469

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B11

<400> 17469

gagaggagtg ggagaccgc gagaggctgc cgtgtaggga ccgtagactc agcgactgcg 60
aaggagggat aaggggatgg ccgggatcgg accgatcagg caggactggg agccggtcgt 120

tgtgcggaag aaggcaccca ccgccgccgc caagaaggat gagaaggccg tcaacgccgc 180
 ggcgccgcc ggtgcggaaga tcgataccat gaagaagtac aacgctggta cgaacaaggc 240
 ggcattccagc ggtacatccc tcaacaccaa ggcctctgac gacgacaccg aaaacctcgc 300
 ccatgagcga gttccaagtg atctgaagaa gaatctcatg caagcaaggc tcgataagaa 360
 gctgacacag gcacaacttg ctcagatgat aaa 393

<210> 17470

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B12

<400> 17470

ctgacgcata ctgcgacact tattgcagga cactgtagac aacatgataa ccatcccttt 60
 ataatgcaaa cagatatatg ttgcagtaat tgtgttctcg actaaatctt caaacatacc 120
 ctgccttcat gactatgggt aagccatgac catttccatc tgtgattctt gaattatcta 180
 cactgatcca tttcggtaag gttaaggtaa gaactgttcg ttggatagaa tggattcgaa 240
 aaaagcgtac ttttcttaat gattattctg agttctttct tttgttaatc tagtcgaaca 300
 actatgagac ttttagaact actcaaatgc gagcaatctt atcattgcga taccgtaaata 360
 tgtctagata gttaaatggt attgtcacag caaaata 397

<210> 17471

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B2

<400> 17471

cttcggtatg cacttgtggt gtgttgtggt gcacggccag agcagcaact ggggtggtcgt 60
 ccagttcagg catcctaacc cctcgaacga tcacagggtc ggcgtcttct ctccctcggg 120
 tttcaggtac tcgacggact atggcatggt taggctctgc atatcgaaca cggaggatga 180
 ctggaggccg ggaacggaac agtacaagtt catcgatcga atcagccctg gctcatcttc 240
 ctcgcgcacc gtgttctcgg ctactcgtcg ggtggctggt acgagacaat gatgggctcc 300

tacggggagc cgataggccg ggacgggctt caagacctct ggcagatgta cgatatagcg 360
gt 362

<210> 17472
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B3

<400> 17472

cccacgcgtc cgggccgtta gccaggaatc cgggcaacaa tgacttcctt ttcctccgcc 60
gtggcactgc cgtcctcgtg ccggggcccg cggcgggggg gaagccggag ggcgcggatg 120
gtggtgacgc gcgcggcggc gtcgagcccg aagctgccga acggggcggc gctgcgggtg 180
gcggtggtgg gaggcggccc cgccggtggc gccgcggcgg aggcgctggc caatggcggc 240
gtggatacag tgctgatcga gcggaagatg gacaactgca agccctgcgg cggcgctatc 300
ccgctgtgca tgggtgctgga gttcgacctg ccgctcgacc tcgtggaccg caaggtgagg 360
aagatgaaga tgatttcgcc gtccaacgt 389

<210> 17473
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B4

<400> 17473

cccacgcgtc cggcggcgcg atggcggtgg gcgacctggc gttcaaggcg ctgacggctg 60
ggctgggctg cgccacgctc tacctcgccg ccaccttctc cgtcaacgct taccgcggcc 120
tctcgtggca ctccgagcag tccaagctag aaaaggcgaa aaccgaagat tgaaaaagac 180
cagcaagcag ttttagagag cagatgaaag gcgggcattt ttgttgatgt cttatctttc 240
gtgtcaattg tgtttttgcg tgtcccgtag acctttcagg atatctggag tgtatcttca 300
agtatgtgat atatatatac gattcaagaa cctgtctggg atgattattc atctttcggg 360
acacgtcctg gttggatcat tatataacaa catcgcaaat gtccctgggta tgtaacattt 420
tttac 425

<210> 17474

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B5

<400> 17474

ccgtggtcac caacaacctc actctatctg cgcagaagag ctccgattcc ctcttcaaca 60
tcgtgcccg gctcgatggg aaccttaact cgggtctcct cgagctcggg accaaaccag 120
gatgcttctt ggcgacgggc acgaactact ccgcagggac gaggattgaa gtcaactgca 180
agagtccct tgagagcatt ggccgggatac tcgagcatgc ggcgagcttt tcgcaaactg 240
accattgag gcagtatcac ccgatcagct ttgtcgcgaa gggggtggcc aggaacttcc 300
tccttgagcc attgtacagt ttgagggacg aattctacac ggtttacttc aacgtcaggg 360
tctgagtcct gacgcttaca cttgcagtag aagtaataca gaataaat 408

<210> 17475

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B6

<400> 17475

ccaggtccgg cggcgaagcg agatggtgtc atccaagaaa gtgtgcgtgg tccgcgctgg 60
cgtgtcgggg ctggcgtgtg cccgcgagct gctccgctag ggctacgacg tgacggtcat 120
ggagcatagc ggccggcgtcg gcgggcagtg gctgtacgac ccgagggcgg acggcggcga 180
cgcaactctgc gctgccggct cgcacagcag catgtacgcc gccgtccggc tcatcatccc 240
gatggagctc acgggcgtct ccgacttcgc cttcgtcccc agagacgacg gcaccggcga 300
ctcccggcgg taccgggggc acgctgagtt cctgaagtac atcagggact tctgcgacgc 360
gttcgggctc atggacgtcg tcaggctcaa caccaacgtc ctgctcgtcg gcctgtcggc 420
g 421

<210> 17476

<211> 407

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-B7

 <400> 17476

 gccaaagctt gcaatggtgt gagggattca tgtgtattgc aagccaaagc tcctctccca 60
 ctgccaccaa gttggcactg tccagagctg tgtgcgctgt cttcctgtgt ttgtgatgac 120
 cacagccacc aagttcacca caccatagcc agaacattct agggagttgc tggcctgtat 180
 gaagcttggt ccgtaatcat ctacagagctc ccagcagaag gagtgtaaat taaagatgaa 240
 gtggtcgtgg aagaggagtt tgctccagtg catgttcac aagtggatgg agctatctaa 300
 ctgggttattg ggtagaagat ctagaacctc ttcattgcaa taaggatgag agaagtactc 360
 gatctgttcg tgaggctgga gacggtttcc agttctggac gacgact 407

<210> 17477
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-B8

 <400> 17477

 gcaggaggcc ctactcttgc cttgaatgag tgccagattt tggtagagca gaaaccccag 60
 ggagattcac gactgctggc ctctaattctg tgcaggaaga agcgacctcg cagatcacga 120
 gatgggccta cgtcagtggc agctgtcatc cagcgggtggg ctgagcgcaa caagcatttg 180
 gagtatgagg aatctgagga ggcaaagcga ccaagaaaag cacctgcaaa ggggtcaaag 240
 aagggtgta tgaagggaaa agggggggcct gacaatactc aatgtggata ccgtggagtg 300
 aggcagcgta cttgggggaa gtgggttgct gaaataagag agccaaatcg tgtagacaga 360
 ctctggctgg gtaccttccc aaccgcggag gatgcagcta ggcctatga tg 412

<210> 17478
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-B9

 <400> 17478

gtccaggaaa tgtcaatgca gtcgacgagc aacctgacca tcagatgggc gttgagaggg 60
aagcctaaga acccggttgtt cgcgagcgtc ggaggagacg tcatcggtccg cgtcgagtc 120
cggttcggtcc tgaaccagat aagcgggcag gtgctggagc aggccgagtc ctgggacctc 180
tccgcctcgt ccctccctgc ccaggcctac ttctggctgt cccgaagggt ctactccgcc 240
gtggagtcg ggaaggacgc gatcgaagcc gccaaagacg cggcgtcgtc tgggctgacg 300
accaagggag accagaatct cgaggcctat ccggatcctt ctgctgatcc tacaaagcgt 360
tgttttgggt tgcagttctt tcagaggccg gatgatgggt tcagcca 407

<210> 17479

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C1

<400> 17479

cccacgcgtc cggcgggtggc ttccctcgctt tcttctgctt ccagaagaag gcgtgacttt 60
cgctctatgg acagagataa aaaaaatgtc ggaggttgac gatggacaag attaccgggt 120
tatcaaattt ttttagtgat aagcaatttt ttggcacaaa tttaaagaaa taactcagtt 180
tgtctagaat ataattgtat ctagacattt aagaaatgaa aacaacacat gagtcagcca 240
aacgaggaat ggaggaaaga aattagtgta aagcaactcc aataattatc taaaaagagc 300
atgctaaaat catatttaat aagttgctaa atagctacgg gagtaaaaaa taagaaaaat 360
tctctgttga gggtaatgct tcgtagccga agatcctaga aagaacac 408

<210> 17480

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C10

<400> 17480

cggacgcgtg ggcggacgcg tgggttaggc aaagcatcct cctgtttgga tcggcatgga 60
gaagacgacg acgacggcgc agccggtctg cgcggaggag tcgctggcgc tgctcaactg 120
cgtcgctcgt gtcccctacg accgggatat gtgcctcgcc ctgcgacg ccctccgtga 180

atgcatcgtg cgcaagaggg tgaagaagtt ttcgctggca gaaccaagct ccaccacaac 240
caccgaagct ctgaagagcg atacgaagcc ctgagcattc tgcaaagaaa actctcttat 300
gtttcggaaa ctgtatcatc tgattgggcg cggttgatga taactctatg cctgttaatg 360
tagcgtaga tttgtacttt tgaacccatg ccagaaatca ccaatctg 408

<210> 17481

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C11

<400> 17481

acaccaccgc gaaaccccag cagccgcacg gatggcgccg aaggcggaga agaagccggc 60
tgcaagaag ccagcggagg aggagcccg tgccgcgaaa gcccggcg ggaagaagcc 120
caaggccgag aagcgcctcc cggcggccaa gtcgtccggc aaagaaggcg gcgacaagaa 180
gggtaagaag aaggcgaaga agtcgggtga gacctacaag atctacatct tcaagggtgt 240
gaagcaggtc caccgggaca tcggcatctc ttccaaggcc atgtccatca tgaactcctt 300
catcaacgac atcttcgaga agctcgccgg cgagggtgcc aagcttgcg gctacaacaa 360
gaagcgcacc atcacctctc gggagattca acctctgtcc ccttgtcctg 410

<210> 17482

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C12

<400> 17482

cacaccacca tccacgcact agtacgtagt aagcgagctt agctactgat cgtcgtcaag 60
cactcgagct cgatctctcg aagcggctag ctgctagctg ctagcagcca attaattggc 120
aagccttcgc aggtgctggt gtcggcgctc gccgcctggg cgggtggctct gctgctgctg 180
tgcgccgccc cgccgcgggg cgccgacgca gccacggcgt gcgacggcgc gcagctgacc 240
ccgtgcgccg gcgccatcat cgggagctcg ccgcccaccg cggcgtgctg cagcatgctc 300
agggagcagc agccgtgcct gtgcacgtac gcgcgcgacc ccaagctgca gcgctacgtc 360

agctcgccca atggcaagaa cgccatggcc gcgtgcaatg tgcccgtgcc

410

<210> 17483

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C2

<400> 17483

cggacgcgtg ggccttatat accttcggaa ggtgaagggtt ggtaagctt ttatgaactt 60
ctggaggcca ttgtcgatca gccaccacct tctgcacctg cagatcagtt ctctccagaa 120
ttctgctcat ttatctcttc ttgcatacag aaagatccgg ctgagaggat gtctgcttca 180
gaactcttga atcacccttt tttgaagaag ttcgaggata aggacttaaa cctgggggatt 240
cttgtggaga acctggaacc tccaatgaat ataccgaat agcctgtcgt ttttagtgat 300
gaagcctttg ttgtgccttc aggggttggc ctggaagcct cttggcatct gctcctcaac 360
tgcagcctcg ctacctgaat atgctataac atcattgtat gattcaagcc ccttatctga 420
gcataag 427

<210> 17484

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C3

<400> 17484

cgggtccagga ctgcggggtc gaggcccgcg tccgcgtcca caagatcccg agcggtctgc 60
cgtacgtgct agtacgacta ggtgggttac cgccctcgcg gcgcttgtgc ctccgccatc 120
atactacagc tgcgaagcct tcatcgctac cagaatacgg gacaattacc accccgtccg 180
cactctacga tggcggcgcc tcggggccacg gctcacgcgg cctcgcggtg tctctccggt 240
gccaaagtctg acgaggctgc tgagcggatc tccagcccgg ttgccatctc ggagccttca 300
actggcctcc gggaaaatag gagccgcgtc ctgagcgttc gtgccaatgt tgccacaggg 360
gttcagacag ccagcactgt ggctgatgga gcgaaaatgc cgtggtagca caatgatgct 420
c 421

<210> 17485

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C4

<400> 17485

gatatttatt tagtttgact cttgagtttag gcatgaattt aacccaagc tagctagaga 60

agttttttttt cccctttgaa attcttctttt gctcgctctt tcctcctgga tcaaattgcg 120

ttggaggaga agaaacggca gctttctctc tttcgttttc tttgctgct tcaccgctac 180

gataatggtg aaaatatgta agctacgtgg acatcaatga tccacagcat cgttgatata 240

tataatatat agagaaaatt ctctgc 266

<210> 17486

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C5

<400> 17486

gttgcccaga ctcgaggga gttggtgct ctgtgtctct gtgtgtgtgg agatggaccc 60

caagttcccc ccacccccac cgctaaacaa aacggagccc accaccgca cgaccaccac 120

cacctcgacc gcgcagcagc agcagcagca gctggatcct aaggactacc agcagcagca 180

gcagcagccg gcgcagcacc tgcaaatcca tatccaccag tcgtagcagg acggaggcgg 240

cggagggaag gagcagcagc agctgcaggt ggtggcgcag cccggggaga ggaggcagca 300

ggcgctcgcg cccaagcgga gctccaacaa ggaccgacac accaaggtcg acggcatggg 360

ccggcggtac cggtatcccc cgctctgcgc cgcgcggatc ttccagctc 409

<210> 17487

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C6

<400> 17487

ctgtcctggc atgtgccaat cctaccgaat cacgttacaa cccaaggctt tctgtaattg 60
 acaacattca cttagcccca actctacttt caagattcga cctaatttat cttatcttgg 120
 acaaggcgga tgagcaaact gataggcgcc tggcatagca tattgtttcg ttgcattttg 180
 agaatccaaa tttagaggag ctcgagggtg tggatctgca gacactagtt tcctacataa 240
 gctatgcaag gaagtatatt cagccacagt taactgatga agttgcagag gagttaactc 300
 gtggctatgt tgagatgagg aaaagagggg atagccctgg gagcagaaag aaggtcataa 360
 ctgcatctgc tagacaaata tagagtttga ttc 393

<210> 17488
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C7

<400> 17488

cagtaatcag agtaatctct ctgtgcctgc gacgacgact aggtgggtta ccgccgtcgc 60
 gccgccgccg ccgccgccgt catactacag gtgcgaggcc ttcacggta tcttaacagg 120
 cgacgaacac caaccagtct gcaactctacg atggcgggcg ctccggccac ggctcccgcg 180
 gcctcccggg gtctctccgg tgccaagtcg tgctgggctg ctgagcggag ctccagctcg 240
 tttgccgtct cggcgcttc tactggcctc cggcaaagta ggagccgcgt cctcagcgtt 300
 cgtgccaaag ttgccactgg cgtgcagaga gccagcactg tggatgatgg agcgaagagg 360
 ccgtggaagc tcagtgatgc tcgtcttgc ctggaaga 398

<210> 17489
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB84-008-Q1-E1-C8

<400> 17489

cgacatcttc tcgcgcctgc ttaaggagcg catcgtctgc atccacgggc ccatcgccga 60
 cgacacggcc tcgctcgtcg tcgcgcagct gctcttctc gagtccgaga acccgctcaa 120

gcccgtccac ctctacatca actcccccg gggcgctcgtc accgcggggc tcgccatcta 180
cgacaccatg cagtacatcc gctgccccgt caccaccctc tgcacgggcc aggcggcctc 240
catgggctcg ctctctctcg cggctggggc gccgggtgag aggcgcgcgc ttcccaacgc 300
cagggtcatg atccaccagc cctcggggcg cgcgcagggg caagctnccg acatcgccat 360
ccaggccaag gaaatcctca aaatgcgcga ccgcctcaac aggatctacc agaagcac 418

<210> 17490

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C9

<400> 17490

gcgcgccgcg gcagcagagg gggagagaga gaggcagagc gagcgagcga gagagcgctg 60
gtcatggcgt cactgtctgt cgccgccgtg gcggccacca tagcgatgcc aagcagcagc 120
ggtgggagag ggcgcgcgtct cagggtcgcg tccatggcca ccagaagggg ccagaagccg 180
acgccaaga ccgctctccg caccagaaga tcgggcacga cgacggtgtt cccggtgggc 240
gagccggggc cgcgggccgc gacgacgagc ggcaaagcgc cggttaagct gctgacgaac 300
gtggagaagc tgcggctgct gaccaaggcg gagcgcgcg gcctgctgtc ggcgggcgag 360
cgcgcggggc tgctcgtgtc ggcgatggag cggctggggc tactgtccaa gc 412

<210> 17491

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-D1

<400> 17491

atctactgca acatttatat ggcattcatt cttagctacg gagtacaaga attgctgtct 60
ttaaacaagc atctgcccgt agggagggaa aaaaaaacta atctgtcagc caagctgccc 120
aatcgacatt tgaggcaagg ctacaacaaa taaataaaga accccacggc taagcatatc 180
aattgtcaat aaagctatgc agggaaagga gaaattggcg tgcaccacgt ggtattgcca 240
caatgtatta tcaggatgca acagctgtgt gctgcaccat gtcattgctga tatattgtat 300

ctgttatcct agatggtggc cagtatcggg gcacagatct cccgaggatg ttcttaactg 360
gaaatggacc ccagttatgt taatcaaagc tgttggttct gttatcc 407

<210> 17492
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-D10

<400> 17492

ccaaggccga tgccaagctg gcggtgaaga gcaagggggc ggagaagccc gccaaaggga 60
ggaaagggaa ggccggcaag gacccaaca agcctaagag ggctcccagc gctttcttcg 120
tggtcatgga ggaatttcgc aaggagttca aggagaagaa ccctaagaac aagtctgtcg 180
ctgcggtggg gaaagctgct ggcgacaggt ggaaatccct gagcgagtcg gacaaggctc 240
cctatgtagc caaggctaac aagctcaagc tcgagtacaa caaggccatc gctgcctaca 300
acaatggcga gagcactgca gctaagaagg ctcttgccaa ggatgaagag gatgaatatg 360
aagacgagtc tgacaagtcc aagtctgagg tcaatgacga ggatgatg 408

<210> 17493
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-D11

<400> 17493

attcttctcg gaatccacca aagccctgcc tcccctctac tgattctgaa agtggagttc 60
catctgcgcg tcggttgatt tattctatct gctgagttgg actacattac ctccatgtcg 120
agactgcgag ctctgtggca ggcttccttt aacgccacaa agagagctct tgtatggagt 180
tcagatgatc taattccgcc aagtgaagaga tgtatcttca atttcaactc aaaagatgag 240
ctgaaaacgt ggcatattgta ctgagattca gagtatggag gtttgtcttc tgcaccta 300
aaaataactg atggcgcttc agttggagat actccattaa ctggtgtgtt ttctggtaac 360
ctttctttgg atatgtctga agagtcaaca tggaggatca ggcgcta 407

<210> 17494

<211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-D12

 <400> 17494

 aactgaagca tcaaattcac ataatggtat gtcgagctca agcagcaatt aatggcagta 60
 catgtacata tgaagctagc gctagctggc tcaccaagcg cccaaattaa ctaatcaacc 120
 cgtaaaaccc cccatgcatg cactgcattg ctgacgcaga tgcaggcccc cttaatctac 180
 ccccatTTca ttaatcctat cagtaatcat gctactgcta atgacacaat cagagtaggg 240
 taccagtact atgtacagag accaagagaa agtaacctag gatgggggag gggggattaa 300
 ttaattaaca aggaagccct aatccccctgg cggctctggac ggataataat ctagtcagac 360
 ccgaggtcag 370

<210> 17495
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-D2

 <400> 17495

 caaacgctgc gtaaacgaat ccatcgccat ggtgtctcgt ctcggtgcgg cagcggcctc 60
 ctctctctcc ctctctcag cgctcgccct cgctcgcta atctctcgcc gcggccttgc 120
 cggtgccgca gacggccatg ggtctgcgaa ggtgcccttg tggaaagatc cgttgagccc 180
 gagcaagtgg aaggaagagc actttgttct agcaagcctc tcaatgtggg gggttatttt 240
 ttatggtggt tacaagcttt ttagtgggaa gaaggaagcc aagactgagg cggcacacc 300
 acaggcatag gtggcggaga tggagttata cccg 334

<210> 17496
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-D4

 <400> 17496

cgactcgctt ctcgccctca gcgacgacct cgtcaagtcc aatgttttcg tggagggcgt 60
gtcacacaag atccggaggc agatcgagga cctcgagcgc gccggagggg tcgagagtgg 120
gaccctcacc gtcgatggcg ttctgtcga cacctacctc accaggttcg tgtgggatga 180
gggcaaatac cccacaatgt ctccgctcaa ggagattgtt ggcagcatcc agtcacaggt 240
tgccaagatt gaggatgata tgaagggtgcg agcagcggaa tataataatg taaggagcca 300
gcttagtgca atcaacagaa agcaaagtgg gagcttagcg gttcgtgac tttccaatct 360
ggtaaaaccg gaggatatga tcacctcgga acatcttg acacttcttg caatcgttcc 420
caagta 426

<210> 17497
<211> 59
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-008-Q1-E1-D5
<400> 17497

ctcctcccca ctcccagga acaacattca tcataatcg actataaact cttgggttt 59

<210> 17498
<211> 160
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-008-Q1-E1-D6
<400> 17498

cccatgcac cgcgagcga tgggctgac cctgtgtac ttcatagtac cgtgtactcc 60
tactctattg tactaataat aataatagta taatacgata ggagtacacg gtactatgaa 120
gtacccacg cgtccgcca cgcgtcagcg gacgcgtgcg 160

<210> 17499
<211> 427
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB84-008-Q1-E1-D7
<400> 17499

ggcgagggac accgtctctg gccgcatcgt cgctcttaaa aaggtccgct tcgataacct 60
 cgagccagaa agcgtcaagt ttatggcccc ggaaatactg atcctaagga gactcgacca 120
 ccccaacatc atcaaattag agggcttggg cacctccagg atgtcatgca gcctttacct 180
 tgtcttcgag tacatggagc atgatcttgc tggctcttgc gcaagttgtg atgtcaagtt 240
 cacgttgcct cagataaaat gttacatata gcagctgttg tcagggcttg agcattgtca 300
 tgacaataat gtattgcacc gggatatcaa ggggtcaaac ttgttgttgg ataataatgg 360
 gattcttaag attgctggatt ttgggctggc aacattcttt gatccaagac atanacgacc 420
 aatgacg 427

<210> 17500
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB84-008-Q1-E1-D8

<400> 17500

cccacgcgtc cgcccacgcg tccgcggcaa actccaagaa cctggggccgc ctgggcccag 60
 cacgttatcc tcgtcaccag ctgcgtcgcg tgcccagctt cctgttttcc ctcttcctcc 120
 cgcgctcgga catcgccagt gaaggccgcg gcgcgcgcgtc gtttgaatcc tggttttctc 180
 cctactcgct gcgctcacgt cgtcgtcttc ctgctcgttc cgcgacgtcg ctcccagtcc 240
 acagctcggt ggcttccttg tgcgcggttg cggatgcggt cgcccgatcc ttgtgccttg 300
 gcccgatect tgtgccttgc cgagctcatc accgccgoga gactctgcat cgctgtgctc 360
 agccacgcct cncatgctgt cttgcacata ctcatctcca aacaggacca cgctgccga 419

<210> 17501
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E10

<400> 17501

gtcagcggag attatattca gcgggaaagc tcagcctggg gtgactgcat cggatgtcaa 60

tgtggaagag gtgaggatgg tcgtcgacga ggatgtcgga ggcttcggct tcaccagtga 120
 caacgagctg atcaacggaa aagccgccat aatcggcttc ctctgctga tcgatttcga 180
 gcttctaact ggcaagggcc ttctcaaggg gacggggttc ttggacttca tctacgcagt 240
 ttcgggagct ttcaactgag agtcatatgt gtgtttgttg ttcgttcctt ggtatcaaga 300
 atgccatcga ggtgtacttg actaccetta gaagcctagg ttttgtcagc gtgcgattca 360
 gtcagctgtg cttgtatttg aacatcacca tgcttgtctg tgaagtg 407

<210> 17502
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E12

<400> 17502

cggacgcgtg ggccggcaac gagcacccaa agatgggtgt cttcaacca gatcggttcc 60
 tgagcgagct gacgagcatg tacgagcgga gcacggagaa gggctccgtc tgggtcacca 120
 tgaagcgatc aactctcaag ggcaaggcac agttgctgga gatggagaat aaggggcagg 180
 aggtagagca caggtgcctc gtccgcgcct ccaatggcaa gaagaacatc tccacctcgg 240
 tttctctaaa ggagtacaca aagtttcaag cttcatacgc aacagttctt aaggcccata 300
 tgcattgctc gaagaaaagg gagaggaaag acatgaagaa gactgcagat gctgagaatg 360
 caattgagac cgcaccaag aagcagaaga aagcat 396

<210> 17503
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E2

<400> 17503

ccctacatct gagtgcctct taggtgccga cgcagcaagc atgttctgct gcggcagcat 60
 tgagatcgcg gcggccttcc cctgcatcca cgacgacgac ctgcggcgag ctgcggctgc 120
 gtccgcctcg tgccgccacc gcgggcgtgc ggctgaccgt gtctgacgcg gagctggagt 180
 cccgcgggtt cgctgtgctg cgcacggcgg agggcatcaa cgtggcggcg tctcaacgag 240

gtgttcctgc gcatgggctt cccgctgtcg tcaggaggag ctgctgccgc gcgcgctgga 300
gcacatccgt 310

<210> 17504
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E3

<400> 17504

cccacgcgtc cgcccacgcg tccggctctc tcgtttaaac gggcgaactc aagattgcaa 60
cagggtcgtc cgccgccacc aattgctagc gcaatcctag ccctagccca gcgccccctc 120
cggccctccc tgcttcgtgc ttggtagcga tggcgtcggt ttctgaagcg cccccgggga 180
acccaactgc tggcgagaag atcttcaaga ccaagtgcgc gcagtgccac accgtcgaca 240
agggcgccgg ccacaagcaa ggtcctaatt tgaatggtct gtttgggagg cagtctggta 300
caacacctgg ctactcttac tcttcggcta acaagaacat ggctgtgatt tgggaggaga 360
acactttgta tgactacttg cttaatccca agaagtacat tcttgggaacc aagatgggat 420
tccctggact 430

<210> 17505
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E4

<400> 17505

ctcccgaaga ctgctctctc tgcgtccacg cctcgcttgc ggcgactaag gcgactgccg 60
ccgcgcgcct tcgcccaggt gctcaggtcc tcgtcgggag ctttaccggt gaatagcgcc 120
caccatacca gattggccat cagaagattg ctacatttgg gaatgatgat cacaggcgct 180
gttccattgc ggaacattgg gaagagagca gacgatctct tgtacaatga ctacaacttt 240
ggccaaaact tttctttgac tacatgttct aactctgggt tgaatctcac agccattgggt 300
gtgaagatca ttgaagactt caatggtgat atacggacac agcagttgaa gcggaagaac 360
cactgttggt gtcataatcg atactgattc tacagtgtca gacacagtca ctgttgatga 420

<210> 17506
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-008-Q1-E1-E5

<400> 17506

cccacgcgtc cgcccacgcg tccggggcgt cgtcgccgag ttttctccgg ccgagggcgg 60
 cgcgaccgga caaccagcgt gagcgcgacc ggcgacatga ctcgcgggcaa ccagcgtgac 120
 cgcgaccgtg agcgcgcggc ggcgcggaag cccaacgcca agaactccca ggacgggctc 180
 accccggagc agcgcgcgga gagggacaag aaagctctgg aggagaaggc ggccaagaag 240
 gcgcagcagg cagcggccgg cggcaccggt acctccacgg acaacaacaa gaacaaggca 300
 ggtggcaaga agtaggaggc agtggcgcgc cgccacctct gtacgattaa tcgatgcctt 360
 gagcttgtaa cttgttcgca tcctttagg tgcatgctt gttgggtcac taactctgat 420
 gata 424

<210> 17507
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-008-Q1-E1-E6

<400> 17507

cggacgcgtg ggtgccgacg cagcaagcat gttctgctgc ggcagcattg agatcgcggc 60
 ggccttcccc tgcattccacg acgacgacct cccggcagct gcggtgcgt ccgcctcgtg 120
 ccgccaccgc gggcgtgcgg ctgacggtgt cggacgcgga gctggagtcc cgcgggttcg 180
 ctgtgcggcg cacggcggag ggcattcgacg tggcggcgct gaacgaggtg ttcgtgcgcg 240
 tgggcttccc gcggcgtcag gaggagcggc tgcggcgcgc gctggagcac agccgtgtgg 300
 tgtggctgtc ggccggggaa gaggaagggc ggcccgtggc gtacgcgcgc gcggccgggg 360
 acggcgtgtt caacgccgtg gtgt 384

<210> 17508

<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E7

<400> 17508

ctctcgtgtc tccactcgcc ctcgagctct ccctctccgt ctccagtcgc cgtgagctag 60
ggtttggagc taggaagtcg tcggccgggc caggggcgcc gccaggaccg cgctcgcgga 120
gtccctgcag gtgcgcgagc acgccagcaa gacctccttc tccgcgggga ggatgtcggg 180
caaggacagc aagccgaggg ccctgtcgcg tagcctcgat gccgcgcgcg caggacaggt 240
cggtttcggg tcgcgcgtgc aactcttcgt ctgtctgtct tgttgcctct gggaatcttt 300
tttgtgtttg ctcatgaggg tcctgtgttc ttgtttcact tgcaatatcc cccatttgg 360
ggttttagatt cagttctcgc cgtgagaata atttggcgct cattcttttt tcagtctctc 420
tct 423

<210> 17509
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-008-Q1-E1-E8

<400> 17509

ggacggcaag cggcggaggc gctgtcatcc gctgggccct tttcttttcg cgcgcacggc 60
gagagtcttg gccgccgtct ggccgatcgt taaaggctgc atcacccggc gcgtgttcgg 120
catcaccatc gccgactgga gcgcctccta cgtcaccttg caccggcgct ccatgcaccc 180
caccttcgac ccgcagcagg ccgaatgcgc tctggtagat aagcgctgcc tccaccgcta 240
ccacttctcc cgcggcgacg tcgtcgtctt caggtcgccg agggaccatc gtgaagtggg 300
ggtgaagagg ctgattgcgc tgcctgnnga ttggattcag atcccgagga aacaggagat 360
ccggcagatc ccgcangggc gctgctgggt tgaagggtgac aatgccgcca ccagctttga 420
ct 422

<210> 17510
<211> 409

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-E9

 <400> 17510

 cccacgcgtc cgcacccggt tcggttccgt cgtccactct cgttccccag ttcgctggac 60
 catctcaaaa tcctatcctc ctctccttcc ctccgtatct catccggccg attcgaatct 120
 ccggtcccat cctctacggc ttcaccccg cccaatcca gtctgtacgt gaatcttgac 180
 aggggagaga agaatcggat aaggagacct gcaccttctt ccgagcaaag caggagagga 240
 aacaagaata gaggaggaga tggccatgcc caccttacgc cttgctcttg acctgccgcc 300
 cgtatccgcg ctctgcttcg ggacaatgac gatgggagag cagagcgggg cggcgtgctc 360
 gctccgcctc ctgcacgccg cctacgacgc cggcgtcaac ttcttcgac 409

<210> 17511
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-F1

 <400> 17511

 cgatgacatg agctccttcg taggcggggt caactccggc tctaaccct tcacggtcta 60
 catgcagcag caggaggtcc gacaaaaaca gcattgcatg ggcgcatact gagagagtcc 120
 cgtggcaact gccgcgcatg aaaccaagggt gtgtatcgag caagtacacc aggttggttat 180
 accgtatact gcacaaagga tgggactatt acaccggtgc ggctttcgat accacgatgc 240
 aatgaacggt agttacaggt ttgtacccat gccgcagact tgc 283

<210> 17512
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-F11

 <400> 17512

 ggcacgtccg gtccatatgg accaccccggt tggatatttg gacctccaac tccatagcca 60
 ctgccaccgc tgcaccgtgg accagctggt ccaccattc cacctccaag ataaggaagc 120

cctcgccctt gctggggata tcggccactg ccatagcgac caccctgacc tccactgttc 180
agattgtagc ctccccctg attcccagcc gtaggatagc ggttacggcc tcttggtcct 240
cggggctttg tacagtcatg gcctgaccca gctgccacag gaagcacatt gtgcataccc 300
tggatcatgcc tgatttgatg atgtgcttgc cctgcctgca ggatttgagg caagcgagaa 360
tctagtggac gattatcaag tttttga 387

<210> 17513
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-008-Q1-E1-F12
<400> 17513

cctcttctct gccccaggcc agaatcaagg gaggggtgaag caccgcccgc gtctccgctg 60
ccgcacaaaag acgagaggaa gaggttcccg gcgcctccac caccatgtcg tcgatgatga 120
acgcgctggc gaactggctg gcgaacccgc gccgcaaccc gctggcgcgcc ctccacatgc 180
acgcgctctc ctcgcgctc aggaaatacg gactgaggta cgacgacctc tacgaccctc 240
acttcgatct ggacatcaag gaggcgctcg gtaggctgcc tatggagggtg gtcgacgccc 300
gcatccagcg cctcaagcgt gccatggacc tccccatgaa gcaccagtac ctcccggagg 360
acctccagge acagcagggt ccattcagag gatatttggg tgacatg 407

<210> 17514
<211> 203
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-008-Q1-E1-F2
<400> 17514

cttcgggatg cacttgtgtt gtgttgtgtt gcagggccag agcagcaact ggggtggtcgt 60
cgagttcagg catccgaacc cctccaacga cgactgggtc cgcgctcttct ctccctccgg 120
tttcaaggaa tccaacgacc aagggaagtt taagggtccgc cataccaaca acggagaagg 180
actgaaggcc ggaaacggac cat 203

<210> 17515
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F3

<400> 17515

```

cccacgcgtc cgcccacgcg tccgcccacg cgcccgccgag ccgcgccgct cccggcgctg   60
gcggagcaga tggagaaggc cgcactgttt gacttcaacc tgacgctccc ggcgatcgcg   120
accgagttcc tgctgctcat ggtggcgctg gacaagctct acttcacgcc gctaggcaag   180
ttcatggatg agcgggacgc caagatccgc ggtgagctcg gcgatgtcaa gggcgctccc   240
gaggaggtga agcagctgga ggaccaggcg gcggccatca tgaaggcggc gcgcgccgag   300
atcgcgggcg cgcttaacaa gatgaagaag gagaccaccg cggagctgga ggccaagctg   360
gacgagggac gcagccgtgt ggaggccgag ctgtagagg cgctcgccaa cct           413
  
```

<210> 17516
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F4

<400> 17516

```

cccacgcgtc cgcgagcgcg tgggtgccaa tctcttgaat ctagggacca aatcaaacca   60
aggcggaatt gggcgtaagc ctctgctg gatctaaaca aatgagagca agaaacttgg   120
agaaccatat gagatcagca atggaaaagc tggaatgtgg atttgatttt gttgaagtct   180
ggaaattgga aggtgacgag ggcattgaaa cactcaatgc aggagagaat tccccaaacta   240
ccaatggcgt gactgtgctt ggggctcggc aagttcctga agcgggtgca cttacagggc   300
atcctgatcc tatagattca ctggttgata atgacttcga gacggttata gaaaacc     357
  
```

<210> 17517
 <211> 69
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F6

<400> 17517

aaactgagtc gatacgtagg catcgagcgt cagcatcaca gacgtcacgc atcggcccat 60
gagtaccag 69

<210> 17518

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F7

<400> 17518

cccacgcgtt ctggcaccgg ttggcgcgca cgttgccgta gtagctgagg tcgaagggtg 60
aggggctgcg cgggtccatc tccaccatgg tgggtgcgtc ggcgagcccc ggctcgaca 120
tctcccgag ctgcgccg cg tacgccttgt tcagcgacgg gtccctgcccc acgtggccgc 180
tgtagttgta cagccggtcc gacgcgaacg tgggtgactg cgccctcccg atcgtgtggc 240
ttcctgcaact gcatgcagtc agggattgtt cctgtgttac caccgtcgtc gatcgatcag 300
tcgtctagct actttgcttg caggacgtac gtacgtacgt agttggacag ctcattgggt 360
gtattgtacc tgacaacacg acgacgtcct tccagcccaa ccccttgaag ctgaag 416

<210> 17519

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F9

<400> 17519

agcctaaagc ctcccttatg ttgccagtac aaaattggtc ggtgtcgttc taatttgctc 60
gtatagacgt acttaataag cagggtgtacg taccttcacg aacctgtaag attgttcaga 120
tgtatataat tctacttagt gcacacaggt agtggataat aatggataga cgaggaagtt 180
tatgcattcg gctttgtgct ccaggagcct gtagtgtgtg aacatgatat gtatgaatgt 240
attatatatc tcaagtgtgt ttatggagta aaaaaaaaaa gacacgacaa taatcgaaca 300
tagaaaagaa agcgacattg agaagaccag aatacatgaa catacgtaaa taaaagtaca 360
aaaaaataaa aagggggggc ccccaaaagg ttccacgctt actt 404

<210> 17520
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB84-008-Q1-E1-G10

<400> 17520

gttcgacgtg ctgaacgacg gggccccctg ggactcctac gtggtggacg acgccggcgt 60
 gctgagccgc gtcaccaagt ccgacgtcaa ggggcttgcc cgcgacctcg aggcccgcga 120
 gaacatccgc ctcaacttca tcaccgtccg caagctcacg agcaaggctg acgcgttcga 180
 gtacgcggac caagtcttgg agaagtggta cccacgatt gaggagggca acaacaaggg 240
 catcgtggcg ctcgtcaca gccagaagga gggcgccgac accggggggc ccgccttcac 300
 ccaggccgac ggcgaccaga ttctcgacgc caccgtgtct gagaacctcn cagtcctcgc 360
 gaccgacgag aagtacaacg aggcgatctt gagcacggcg aagcggctgg cg 412

<210> 17521
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G11

<400> 17521

ctcgcgggac gacacaagcc tctacagtga ctcgtaggaa tatgaaacta atatatatga 60
 aaacagatcc tcccctaaaa gaattgaagg ccctgatgga agaaatcttc agctccagtt 120
 cagaagtcag ttggctcttc caatcttcac tgggtgaaaa gttgaagggtg agcagggagc 180
 agctatacat gttgtgctgt tggatgcaaa cactggatgt gttgttactt caggacccga 240
 gtcatttgca aaattggata tccttgtgct tgagggtgac tttagtaaag aggaagatga 300
 ggattggaca gaagaagagt ttgaaagtaa tattgtcaag gagcgtgaag ggaagaggcc 360
 tcttttgaca ggcgacctgc aagtgactct taaagaatgt gttgggacca taagggagct 420
 tacattcact g 431

<210> 17522
 <211> 407
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-008-Q1-E1-G12

<400> 17522

```
gcctgcagtg acgaggggtcc ggcaaggcac agcctcattg tgaggggtgt catcccaatg 60
ctgagtgccg ccactgccaa ggcctttgac aacgaagcca ctgacgaagc tattggtttt 120
gccattgaaa atgcgaagac gatgggggcta tgcaacaccg atcaatccgt tgtggccctg 180
caccgcatcg ggatttcac cgtcatcaag cttcttactg tgaagtangg gtccaagggt 240
gagggaacacc attttgcttg gtgaattttt gtgaggctgc ttacgcacat cagcgtatcc 300
acagcttttc tgttgccaaa gatacagact ttgcgttctg gtacaccttg gtgttacaag 360
gttgtgggaa tttgtcgttt agatattagc gatttaaaca gtttatac 407
```

<210> 17523

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G2

<400> 17523

```
gttcgacgtg ctgaacgacg gggcccccggt ggactcctac gtggtggacg acgccggcgt 60
gctgagccgc gtcaccaagt ccgacgtcaa gcggcttgcc cgcgacctcg aggcccgcaa 120
gaacatccgc ctcaacttca tcaccgtccg caagctcacg agcaaggctg acgcgttcga 180
gtacgcggaac caagtcttgg agaagtggta cccacgatt gagggaggga acaacaaggg 240
catcgtggtg ctcgtcacaa gccagaagga gggcgccgtc accgggggggc ccgccttcat 300
ccaggccgtc ggcgaccaga ttctcgacgc caccgtgtct gagaacctcc cagtcctcgc 360
gaccgacgag aagtacaacg aggcgatctt gag 393
```

<210> 17524

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-008-Q1-E1-G3

<400> 17524

acaccaccgc gaaacccag cagccgcac gatggcgct aaggcggaga agaagccggc 60
tgcaagaag ccagcggagg aggagccgc tgcgcgaag gcccgggtg ggaataagcc 120
catggcctag aagcgcctct cggcgggtcaa gtcgtccggc aaagaaagcg gcgacaagaa 180
gggtaagaag aacgtgaaca agtcgggtgga gacctacaag atctacatct tcgacgtgct 240
gaagcacgtc caccgggaca tcggcatctc ttccaaggcc atgtccatca tgaactcctt 300
catcatcgac atcttcgaga agtcgcccgg cgacgtgccc aagcttgccg gctacaacaa 360
gaagcccagc atcacctctc gggagattca nacctctgtc cgccttgtcc ttc 413

<210> 17525

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G4

<400> 17525

cggacgcgtg ggaaagaatg gaggttattg tgcttatatt gatgcagaaa atgccttcaa 60
cccttcattt gctgaatcta ttggcgtaga cagtgaagg ctcttgatag cccaacctga 120
ttctgctgaa aattctctaa gcattgtaaa cactcttggt ggtgggtctg ttgctgttgt 180
tgttggtggac agtgtggcag cacttattcc caaatgtgaa attgaagggtg aaatatacac 240
aaattgtgga gacatccaat cccatttgat gactcgggcc cttagaaaaa ttcagtacac 300
tttatgtcga tctgaaacac ttattatatt tgtgaatcac gttagaacag agaggacatc 360
aagtaatcct gggatctaca aagaggtgcc ttgcgggtgt aatgcactag gat 413

<210> 17526

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G5

<400> 17526

cgcacttccg ctacaccatg gagatcaacg cgctggccag ggaggcgctc atcaacgccg 60
acggcatcat cgaggagtcc ttctggccgg gcaagtacgc cgtcgagctt agctccgtgg 120

cgtacggcgc gacgtggcag ttcgacacgg aggcgctgcc caacgacctc gtcaagcgcg 180
 ggctggccgt gcgcggggag gacggggagc tggagctcac catcaaggac taccctacg 240
 cccacgacgg gctcctggtc tgggactcca tcaagcagtg ggcgtccgag tacgtcaacg 300
 tctactacaa gtccgacgag gccgtggccg ccgaccccga gctgagggcg ttctgggacg 360
 aggtgcgcaa cgtggggcac ggcgacaaga aggacgagcc gtggtggccc gtgctggaca 420
 cccg 424

<210> 17527
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G7

<400> 17527

gcagctcatc agataggcaa acaccaagaa gctaagctag cgcgccatgc agacgccgac 60
 catgtcgacg tccatggcca ccacggcgcc agcgaagccc cccgcgccgc cgcggcaatg 120
 ctgcaggtac ctctctctcc cctccaccgg ccaccgccgg agcgtggcgg catggtctgc 180
 caaaaagaag aaccctgggc tggaccctgt cgacgatggg cccgacgagg agttcgatta 240
 ccagggcatg ttctccggcg ggaagcagga ggaagaccc 279

<210> 17528
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G9

<400> 17528

cccacgcgtc cgcccacgcg ttccgataaa aagaattctc cacttcccca ctctccctct 60
 cccgctcgtg gctcgtcagt ggggtgggagt gtgcggggct agccgctagg gtttccgcga 120
 gcccatcgcc ggccggccac ggacgatccg ggactccatc cggcgcccgc cctgaatcgg 180
 cttcgcgggg cgcaaggagc gagagaatga agtcgtcgct gcggaagctg ccgggcttcg 240
 cgctgcagcg ccaggagcag cgggtggacc gggaccgcgg ccggggccac gccgcccgcg 300
 ccgccacggc ggctgacgag ctctcgcgg ctgctcatga tatggcagat atgagaagct 360

<210> 17529

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H1

<400> 17529

ctggggcgac actgcatccg tactctgtgc tagcagagca tccacaactt ccggttcggg 60

tccccgcgcg aacaatcgcg tcctgtgccg aagggccggg gtgctcccgg cactcagaag 120

ctcgagaca tctctgccga tgtccgcgic atacatctac cgtagcgtat tcgcgtagag 180

cttcccgc 187

<210> 17530

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H10

<400> 17530

gagctaccta gcaacgcgca gtaagcagcg tgggcaaagc tacgagcgcc cggctagctt 60

cgccatgaac atgggtgggg tgtccccgtc gacagtccgg tgcaagcact gcagcacgca 120

gctcacctg tgccccggcg agcgcgccat ccagtgcacg caatgctgcg gcgtgacgcg 180

tatccggcgg cgccgggtcc agcggccggc ggcggcgccg cccaccacag gcttcgcgcg 240

cgcccgcggt aagaagcggg gcctccggat cggcatcacg tacgcgggga cgcgccgggg 300

ctgcggccag ctgagggggg ccctcaaaga ggtaaagtg cat 343

<210> 17531

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H11

<400> 17531

cggacgcgtg ggcggacgcg tgggcggggc cagtcgcggt cccaacgtc agaggatctc 60

gttccagctg cggcagggcg gccaacaccg gcacctcatg ggcgccgacg acgaatccgc 120
 cgccgccatg gaggtgcaag agagggaggc ggagatcgag aatgccatgc gcgcccgcgt 180
 cgcagacttc aataagcagg cctactcctt gactcttgaa tgcgttagga cagcactggt 240
 aaaggacctg gatttgaaga tatattcact tgatgcacat agaaggttta taaagcactg 300
 tgtatacaaa gtttttgctg aatctgctga tgaaaatgca aatgatgatg cattagatga 360
 ttctgatgct aaacatga 378

<210> 17532

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H2

<400> 17532

gggtcgaggc acgcgtccgc ccacgcgtcc gatttcatcc acgctgctcg tgctcgctgc 60
 ctgcttctcg cgcgategtc tcgggctctc gggattctac agtggaggcc ggctctccgc 120
 ctgttcttgt cgtcgctgct cctttcgcag tgagcttaaa atatacacag gatgtccgaa 180
 cgttctgaga gcgcaactga aaagattatg agcagcatca tggataccat tgctgacaac 240
 cttcctaagc agaagtctgg gaaatttgat ccaggttcag tctctgacaa agtgaagaat 300
 aagctgtttg gtcgtcagaa gaccttgcac ggagttctgg gtgggtggaaa acctgctgat 360
 gtgctgttat ggaggaacaa aaagatatca tctagtgttc tggctcttgc aatagctact 420
 tgggttttct ttgagt 436

<210> 17533

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H3

<400> 17533

ggagtatggc ctccggcacag gagaaatgga aagaggaatg atgcccacaa atacaactcg 60
 gcgatttgaa aattgagttg ccatttcact tactatcgcc gattgcgatt ggaggtgcgg 120
 cagctggaat agctagcact ttggtgtgtc atcctcttga gggtcttaag gatcgcatga 180

ctgtcaaccg tgaggttat cctagtattg ccattgcctt cagcaagatc taccgaactg 240
atggcattgg tggcctttat gctggcctct gcccaacgtt ggttggcatg cttccatata 300
gcacatgcta ctatttcattg tacgagacca tcaagactaa ctactgccgt gcgcacaaga 360
tgaaatcttt gagccgtcct gagctgctgg ttatcggcgc tctttc 406

<210> 17534

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H4

<400> 17534

cccacgcgtc cgagcaagag caagcttcaa cctttgcatg cagagaccta gtggaataga 60
gcgaggggaa tggagcaagg agacgaggcg tcgtcgggtga ccaaggagag cccggagcag 120
cagcttacctt gggaccggga gcagcagcac gacgcgggcg tggcgtggct gaacctcacg 180
cttcgcgcgg gcgagtcgcc ctgcgccgac ggggctgcga gctgctccgc cgagtccggg 240
tccgggtccg ggtccgggtc cgggcccgag cccaccgcca atccgtccgc cgcgccgcac 300
aagggtgttct cctgcaactt ctgcctgcgc aagttcttca gctcgcaggc gctgggcggg 360
caccagaacg cgcacaagcg ggagcgcagc gccgccaaagc gctcctacca cgcgcaccgc 420
atga 424

<210> 17535

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H5

<400> 17535

agcggccagc aaactgcctc cgtcctccct gcgggctgtg ccgcctcttc ttgcgctcgg 60
cgccgccttc cttccttctc ttctgctgct gatggaactg gatcctcgcc tctacgagaa 120
cgtctctgtc agcgacaacg atgtccgaaa catagttcta tcttatctta tgcacaactg 180
ttttaagag acggcagagg cattcctatc tagcaccggg ttgaatttac ctgtcgacta 240
tagtgtggat gtggataagc gtaaagcaat ttttaatttt gtgctagaag ggaatgcctt 300

taaagccata gagctgacag aagaaatggc acctaacttg ctagagaatg atatggatct 360
acattttgat cttcttagtc tccacttcat tgagctagtt cgctccaaga aattcacag 419

<210> 17536
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H6

<400> 17536

cacattttga agcgaatcct gcttgcctga gtggaggtac cctcttcgtt tgagacaatt 60
ggatcatgtt ctcatctgaa catatctgat gacttgctag catataaaga tgtcatagca 120
aagggttatct atgacaaaaa ttatccaagg attcagaccg tggatgaataa agtggggaca 180
ataacaaatg aatttagagt cacgaagttt gagatcttag cagggaataa tgatatggtt 240
actgaaatta aacaatatgg tgcaacattc agacttgatt atgggttggc ctactggaat 300
tcaagactcg agcatgagca tatcagatta gtttcctctg tcaagaaagg agatgttata 360
tgtgacatgt ttgctggtat acgtccattt tcaatcacgt ctgctcag 408

<210> 17537
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H7

<400> 17537

cggacgcgtg ggtagctctt cttctcgaat ccagcccag gcttttttct tctgcggttt 60
catccgtacc catcctgcac acgaagccta gaatagccct cccctgctcc gccacctcct 120
cggatcccga ccaccccacc cccaccccag acaacaggtt gatggaggct aagatgggac 180
gcttcttcga gtccgtgagc aatttcttca ccggaggcga ccacatcccc tggatgcgacc 240
gcgacctcat cgccggctgt gaaggagagc ttgtcaatgc tgcaaatgag gaacagagga 300
atgaaagcct tatgaggttg tcatgggccc ttgtgcactc caggcagaca gacgatgtaa 360
accgtggaat cagcatgctt caagcttctt tggataattc tgccagtcct ctgcagacta 420
gggaaaaa 427

<210> 17538
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H8

<400> 17538

gcgtgcgaga taactcattg gtgagagaca taagccaaat gccgcaaagc agctatggga 60
ttgaaggatt gtcacatata acagttgctg gtgcgctcaa tcatgggatg aaagaagtgg 120
aagtgtggct tcagacaata agtccaggct aaaggacgcc aatccacagg cattcctgtg 180
aagaagtttt cactgtcctc aaagggaagg gtacgctctt gatgggatca agctcactaa 240
actaccacag gcatccacag gaaattcctt tctttcagaa taccacattt tcaatccctg 300
taaattgatcc acaccagggt tggaattctg acgagcacga agatttgcaa gttcttgtga 360
tcatatcgag accgcctgct aagatatattt tatatgatga ttggagcatg cctcataca 419

<210> 17539
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H9

<400> 17539

ggagtatggc ctcggcacaa gagaaatgga aagaggaagg atgcccacaa atacaactcg 60
gcgatttgaa aattgagttg ccatttcact tactatcgcc gattgagatt ggaggtgcgg 120
cagctggaat agctagcact ttggtgtgtc atcctcttga ggttcttaag gatcgcatga 180
ctgtcaaccg tgaggcttat cctagtattg ccattgcctt cagcaagatc taccgaactg 240
atggcattgg tggcctttat gctggcctct gcccaacgtt ggttggcatg cttccatata 300
gcacatgcta ctatttcattg tacgagacca tcaagactaa ctactgccgt gcgcacaaaa 360
agaaatcttt gagccgtcct gagctgctgg ttatcggggc tctttca 407

<210> 17540
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-A12

<400> 17540

cgccctcagcc caggcgctccg gtatcccttt gcttgccctg tagagcgaca tggttcgcta 60
tgggcgatac agggagcattc tccattctgg tgcattttct ggtggcgcc ctatgcctga 120
cctccttttg cttcgccgtc gccgcctatc gccgtccgca gcaggggttc aatatacaca 180
gacagctcca atgccacatt ttgtgtttac gactccgata ttgctactgg gtacgggtgtt 240
ggtgcctttc ctgtttcttc tctc 264

<210> 17541

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-A6

<400> 17541

cccacgcgtc cgcgtccatg gggtaaaactt ccggaaaatg ttccttgtca tccaaaactt 60
gcagacttcg ctaattgtat gaagaagaag ggtcgtggta tgtccatttt tgtctcgata 120
attgatgggtg attatcatga actagctgag gatgcaaaga ctgcctgccg ccaactagat 180
gcttatattg actacaaacg ctgtgaggggt gttgcagaga tcattgtagc tcctaatatg 240
tctgatgggtt tccgtaccat tgtgcagaca atgggcctag gaaacttaaa accaagtatt 300
gttgtgatgc ggtaccctga gatctggcga cgtgagaatt tgacacagat agcgtcaaca 360
tttgtcagca taatagatga gtgcattatt g 391

<210> 17542

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-B6

<400> 17542

ggcttgcggt ggatacctag gcacctcgtc ctcccgccac ggctccccc tctccgtcac 60
cgacgcccgc ctgcagctcc tctgcgcgcg catcgtaag tactactccc tccgcccatt 120
cgtcgccgag accggccgcg cgcccgagga gtgggaccgc gcgcacgacg ccgcatgtt 180

ccattactcg tccgggatgc aagccatcat ggtcgccgtg ggagtgtgcg acagagtcag 240
 cgtgtttggc ttcggcaagt cttccgacgc caagcatcat tagcacagca gccagaaggc 300
 ggagctagac ctccacgact acgatgcgga gtaggccttc taccacgacc tctccgagcg 360
 accgcaggta gtcccgtt 378

<210> 17543

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-B9

<400> 17543

aggaggcagg ccatgctggc gttcctggcc ttctgatcc agcacaacgt caccggcaag 60
 gggcccttcg acaacctgct gcagcacctg tccgacccat ggcacaacac catcatccag 120
 accctgtcgg gttgagtcga cgggccatca cgtcatgtgg tccgagctga aaagccgaga 180
 ctccaagaca gttcgtgtga tgcgttttta atcgactgat ggctaaggaa tgtgacgtac 240
 tggatatatgt acattagtgt aagcgggaagc tataaaaggt gtacagattg tttcatcagt 300
 gtatatcatc tgtccc 316

<210> 17544

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-C9

<400> 17544

catctgcaag agactacaca cctccccaat atctcacact cctcctgacc gaccttggtg 60
 ttctgacgcc gtctgttggt agtgatgagc tcatccaact gtatctatga tctttgcggc 120
 aggcgccggt gtttcattgg catgtaacat ctacagttga gtccagggtt tgcctatca 180
 gttttgacta tgatgtatgc ttgactttgt ggtgctgatg cgatgtagaa gaatttctcg 240
 gaacgattat gctgagagaa atcaacagct tgtaagagct taaagtacag tcatggttac 300
 gaatctgccc cagaccattt tcagcactaa aa 332

<210> 17545

<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-D9

<400> 17545

atgacaacca ttatcacctg ctgtctcagg agaaatattg actgacaacc tcatgtcaaa 60
ttttgatttc caagttatca ggtcttcttc agaaccaagc tggtcggttg aaccacactt 120
atcattgaag taattaagcg gttgtatttc attgttgatg taatcaaaaa ttttagttcc 180
ttcaaatata atagatgaat cattgctaaa tctaacattg ttgtcaatgt tttcatagtt 240
ccaagaacga aaacatttat ctgatgtcct gttaagtgtg tgcaagggtcc ttggatgact 300
gcaagggtga tcaaccaaca aggatgggtg agaaaaatga tttaaagtat ccttgaggga 360
gggactatct atcaagtcac tgttccatag agcatgaata taagggaat tcatctggtc 420
aat 423

<210> 17546
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-E4

<400> 17546

gagcaacggc tttataggag tggacataga ggaggggggc ttcaagcatc agcattgtcc 60
caactgataa gaatacgccc ttttgtttgt ttgtcaata cgtcggcttg agctgtttgt 120
gtagtgcgcg agcagctaac ctattcgaaa catttaccgg actgtgaaca cgcccacttc 180
atccatgttg gcaccatggt gtaaaatgag aacactcgtg gctccagggt tatttttatag 240
tgtcttgga gacgggctg attttgcctt cacctggctt gtttcacata gagacaacca 300
agaaacgtgt gttcattggt tattgagata tggataccaa agcaatgctg aacttttagc 360
atagtttttt ttaaaagaaa gaaaagaaaa aaaggcgggc gctcta 406

<210> 17547
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-E6

<400> 17547

gcggctgccg cgggcccga cgtcggcgtc ggcgctcggcg tcgtcgtcgc cgtggcgcg 60
gcgcgaggac cacctccacg gccacggcaa gacggccaag gtgatgcacc tgctgctctg 120
gggacccaag tgaagcggcg agaggccacc gtaccgccgg cgttgctcgt tttgctctgc 180
ctgcaatccg ccccgacgg actgtactgt actgtaccta tacacctata tactacgacg 240
tgcacatgta cgagtctacg acgtgctgct gtaccatact aatactagtgc cgctgctgct 300
cccttgccct cttgcttgca agttgcacca gccactccgc ttttttttgc tcgaacgac 360
gactgctcgt cgcgtcgggc caccggccggc cgtcagtttg ggtgtgtcca 410

<210> 17548

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-E9

<400> 17548

cagacgcatg ggtttttttt ttttcacgga agctgaataa ccaatttatt ggatcaaaaa 60
gaaagtagat gttatcacag gatggctaca taaaccttct gtgtgaagta aactgtgagt 120
acgaagtcaa tccctggaac cagaaaatgc aaaagagatc tacgtgcaag aagtagctct 180
gccactactg gacttcacta ccacctttct ctcacatcat ccgatttggt ctgttttccg 240
taaagtgggtg gttcgctatc agttcaagtc actggcaggc cgtggctgtg gatcatcacc 300
ttcacgaaga gaatatcgaa agaatgttct tcttaacgat gaattcatca gctttggaag 360
gactgattga cttctcc 377

<210> 17549

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-F10

<400> 17549

acgcggaacc ggcgagcgcc tggcgcgctgc cggctacgcc gtctacggcc tggactacga 60

gggccacggc cgctccgacg ggctgcacgg ctacgtgccg gatttcgacg cgctgggtgct 120
 ggactgcgac gagtacttca cctcagtggg ggcgggcgcg gcgcagtcgc agtccaagga 180
 cgcccagcaa ctccccgggt tcttgctccg ggagtccatg ggcgggcgccc tggctctcct 240
 cctccaccgc cgggcgcccc agtactggag cggcgccctg ctgggtggcgc ccatgtgcaa 300
 gatcgccgac gacatgcggc ctcaccgct ggtggtcaac atcctcaggg ccatgagcac 360
 catcatcccg ac 372

<210> 17550

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-F12

<400> 17550

cagaattctc ttcatattcca ggggcaacag aaccacagc ttcaagcttt tatccagcag 60
 cataaactag cacaacttca gcaacggcag cagcagcatt tgttgcaacc attttctcag 120
 atgcaacaac cccaagttgg tattcctcgg cagccgcaac ttaggccgcc attgggacag 180
 actggaatgc agttaggtgg tcctgttagg actcctatcg agaggggcgt ttgttctcgc 240
 aggatactgc agtatctatt tcacaagcgt catcgcccag agaataactc tataacatac 300
 tggaggaaga ttgttgaaga gtactttgca cctcgagcaa gagaaagggtg gtgtgtctct 360
 tcgtatgaaa acagaaggaa ttcttcagct 390

<210> 17551

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-F9

<400> 17551

tccagctaaa gcccgatttc ttgccgagcg cttgcccttt ccgttggaat acctctatgc 60
 tgatcctgat cggaaggcgt ataattctctt gggctatat tttgggtgtg gtcgcacgtt 120
 cttcaatccg gccagtgcga aagtgttttc acggtttgac tcccttaagg aggcggtgaa 180
 gaattataca atcgaagcca cccagatga cagggcatgt gtcctacaac agggggggaat 240

gtttgtgttc aaaggtaaag agctgttgta cgcaaggaaa gacgatggca caggcgacca 300
 tgcacctttg gatgacgtgc tcaatgtctg ctgcaaagtt cctgtaacct aacccga 357

<210> 17552
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-G5

<400> 17552

agaatgcttc cctgtgtgcc caaagcattg ataaagccag caggtaatga tctagcacia 60
 gatggactac gcctgtggtt agaagaacac cttaggcggt tacagagtgg catgatcaag 120
 acccgatatgc tgatggcatc gagatataatc agcttatatc cacacgcacc tccatcatgc 180
 agttcagctg ttacaaatgg cattaaggta cgctcatctg ctgtctttgt gccagaacat 240
 cctgagaggc ctgcggaaaa atttatgttc acttactcaa ttcgcatgtc agttccatag 300
 gcatgcatgc gatgtggcgt gtactattcg tccctgcgagc ttgctcgcg ccactggacc 360
 atcagatcgt gtgagagggg tgtgtctgat gtgagcgggc gacgg 405

<210> 17553
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-G7

<400> 17553

tgagaaatct gtgggttccct ccttccagct tgtgtttgca ccaattgatg agcattttcc 60
 ggatgatgct ccattgattt cctctggcct tcgtgtcata ccatttgata tgaaaacaga 120
 tgggtgatcc tctggtagga cgctagattt ggcattctagt cttgatgtgg gttctgctgc 180
 accccaagcc tcaggggatg cacctccaga tgactgtaat ttgagatctg tgctgacaat 240
 cgcttttcaa ttcccttatg agatgcacct tcaggacagt gttgctacta tggcccgtca 300
 atatgtgcgt agtgttgttt ctgctgtgca aagggtgtcg atggctatat ctccctccca 360
 atctgggtcta aatgctgggc 380

<210> 17554

<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-G9

<400> 17554

cacacgcattc cgggctcaag gaccctagag atagagatcg tatgggtccaa tacgccatcc 60
aacgactgta tgtagcgtac ggatgattta cctgacgcca attcttgtac tcttggcttc 120
catgtaaatc agcccccca taatcatccg aattcattta tttgtacgta gaaagttaag 180
acacttagat aactcgcgcc atcattcaat tattgaggtc atttccggga ttgtggccct 240
gctgctgtaa actgattttg caccgggta tttttttttt tgtacaggtg aatttatctc 300
atgtagttat agcttagtgt agattgggtg tgagtacgga ctaaccctag tgacagtaac 360
attgggtgtg aagtgtggcg tgatatttgc tcccctgggt gtgttttccg 410

<210> 17555
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-H10

<400> 17555

gcattgtacg cccatgtccc ttcaatttgt atgcccctgc actaggtgct agcgcggtac 60
aattttcgac aatttgttgt gttgaactga acctccatga cacaagctaa acctgcacct 120
agtggcaaga ggaactggag cagtggcggg actgccgctg ggacggagaa caaggaaaga 180
cgagatgaca aagcaaaagg aatcacggtt gctggttga acaagggcga caagaagaaa 240
gaagacaaag ggcgacaagt aagtgcggga tcgaagaggc cgtggagtga gggagtgcct 300
cgggttggtg tgaagagggc tgtgtctggg ttgacagga ggaacaggaa gatcgatgat 360
gactcgttgg atgatgaatg tggcaaggat gtttcatcct tcaaattcaa ag 412

<210> 17556
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-A10

<400> 17556

accacgcgtc cgcccacgcg tccgcccacg cgtccgctat ccctttgctt gccctggaga 60
ggagaggggtg cgctatgggc gatacaggga gcagctccat tctggtgcac attctggtgg 120
tcgccctatg cctgaccgcc tttggcttcg ccgtcgccgc cgagcgccgc cgcagcacgg 180
gttcaatagt cacagacagc tccaatgcca cattttgtgt ttatgactcc gatattgcta 240
ctggctactg tgttgggtgt ttctgtttc ttctctcaag gactcactg ctcatgggtg 300
ttacaagatg catgtgcttc ggtgaacact tgcaccagg 339

<210> 17557

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-A11

<400> 17557

agacgacttg ttccattgat tcttgaagag atcgagcttc ttttgcacca caaggtcgag 60
gatgtcttgc aactgcggat caagctgcgg ctgctggctca agctgcaagt gcggcaagaa 120
gtaccctgac ctggaggaga cgagcaccgc cgcgcaggcc accgtcgtcc tcggcgtggc 180
cccggagaag aaggccgcgc ccgagttcgt cgaggccgcg gcggagtccg gcgaggccgc 240
ccacggctgc agctgcgggtg gcaactgcaa gtgcgacccc tgcaactgct gatcacatcg 300
atcgacgacc atggatatga gtattatcta tccagcttgt ggtgggtggtt gaacaataat 360
aagccaggcc gagctggctg ccatacatag gtactgtgtg gtgtgtg 407

<210> 17558

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-A12

<400> 17558

agcgcagcag ctcccgcggc tgctggcgac ggcggcggcg gcggtagcag ccgcgcgct 60
cccggcgtg gcggagcaga tggagaaggc cgcactgttt gacttcaacc tgacgtccc 120
ggcgatcgcg accgagttcc tgctgctcat ggtggcgctg gacaagctct acttcacgcc 180

gctaggcaag ttcatggatg agcgggacgc caagatccgc ggtgagctcg gcgatgtcaa 240
 gggcgccctcc gaggaggtga agcagctgga ggaccaggcg gcggccatca tgaaggcggc 300
 gcgcgccgag atcgcggcgg cgcttaacaa gatgaagaag gagaccaccg cggagctgga 360
 ggccaagctg gacgatggac gcagccgtg 389

<210> 17559

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-A6

<400> 17559

aaatTTTgCG aagggaatgg cCGtTgtTgc agcaagagca aCGaggcttc caatTTtactc 60
 tTctTTtcGCC aaagaaggca atcttagtga tttatTTtGct aaaggggaag ccatatcaac 120
 actTTTtcaat gTcatgggaa tTggagctgg aattggattg gcatctactg tttgttcaac 180
 aactcaaggc aagttaattg caggcccggt actttccgca gtgcataatat atgggggtcat 240
 ccaagatatg agagcaactc ctgtgaacac actcaacca caaagaacag caatgatcgt 300
 gggTgatttt atcaagagtG gaaaggTTtc tagccccgcc gagctaattgt acaaggaaga 360
 cctcctgttt ccaaccgagt tat 383

<210> 17560

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-A8

<400> 17560

aataacccta gcctcctccg ccgcgggcga cgaatccggc gttttgagtt tctgttgcca 60
 gcgtagccat gtccatgttc aataggatct tcgggaagcc caaagagcag gccaaactcca 120
 atgccttggc cactctggac aagttaaattg agactcttga tatgctggcg aagaaacaaa 180
 aggtgctgga caaaaaagca gccgctgagc ttgagagagc caaggagttc tcagaagcta 240
 agaataaaac gagcgggtat ccaatccttg aagacgaaaa aactttatga gcaacaaatt 300
 ggacagcttg gaaatTTtca gttgagaatc catgatcaga tgatcatgtt agaaacagct 360

aaagctacaa cagagactgt tgatgcattg ag

392

<210> 17561

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-A9

<400> 17561

aaaaaaatta ccaatttgac ccttagcccc ggtggtatat ttggttattt actaaaatcc 60
ccttttgggg gagaaggatg gattgttagt gtggatgatt tagaagatat aattggggga 120
catgtatggt tgggttccat ttgtgtactt ggcggaattt ggcatacttt aaccaaacc 180
tttgcattgg ctgcgcgtgc atttgtatgg tctggcgaag ettacttgtc ttatagttta 240
ggtgctttat ctgttttttg ttttatcgct tgttgttttg tctggttcaa tagtacggct 300
tatccaagtg agttttacgg gcccaactga ccagaagctt ctcaagctca agcatttact 360
tttctagtta gacaccagcg tcttggagct aatgtagggt ctgccca 407

<210> 17562

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-B10

<400> 17562

aaggggcttc ctctgaggc tgcagccgag caaattgtta aagtacaaca ctagtaccct 60
tcccagccca tcttaacaca aggtctaaaa tcttcagttg tactgttcct aactggtgta 120
ctgtttgcag gaagcagttg aatcaaaagg attgagagat gatacaactt gcattgtcat 180
tgacataata ccaccagaga aacaaaaatg cgctatagaa tctccaaaaa cgccaggaaa 240
aggccttgtc cttctaaaaa atttcttctt aaggaaaacg gcactctggtt cattgtctct 300
cgctgacaag gataattatc ccgagccaga tttcgtggag gaggtctttg aggatggatg 360
cccatccctt tcgaggaggt ttgtgccctt atctcatctt gaatacggat gcataat 417

<210> 17563

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-B12

<400> 17563

aaaaaacacc caaaaaacca ctttcttttc ctgcgttccc ctgctcgatc cccgacgaga 60
attcgctccc gaaccatcg atctgctctc cgcagtcgcg cgatccgtgg atcgatccgt 120
gcgcgggctc ggtcgcggcc gggttccgat ctggtcgcgg cctcgctga ggagatgaac 180
ggcgccgggg gcagccacca ccaccagcag cagaggctcc ggcagcagca gcagcaggcg 240
ctcctgatgc accatgcgct gcagcagcag cagcagcagc agcagtacca gtccggcgctc 300
ctgcgcggcg cggcggcggg ggccatgacc caagtc 336

<210> 17564

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-B8

<400> 17564

aacctacagg ataggttctg tattacaggg caatccgact ctactagtac caataggcag 60
catacgggag aaaagcacta caccacgaaa taggaatcaa caagagaaaa actttgttag 120
aaattagccc tttcctgatt ggtatcaggg ttgggaagaa tggttgggat acaaagaac 180
catcaggttt gtactttgga tacccttata accatcaaag gtcgttgaaa tggctaattc 240
ctctaaatag gaggcgttga gaacaaagaa attcttgagg ctatcgtttt cctctagcat 300
taatataatt cattggtgtt aagaaaaacc tcttggggga aggttggcaa gagatttctt 360
ggaaaaatta cagccccctt cggtcataa tgagatggga ctaattcgat tttt 414

<210> 17565

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-B9

<400> 17565

atgccatca cataaaacca gtgcaagcag aagcagcgca atggcgagca gcaccatggc 60

cctctcctcc acagccttcg ccggcaaggc agtgaacgtg ccgtcgtctc tcttcggcga 120
 ggccccgcgtg acgatgcgca agacggcggc gaaggcaaag ccggcggcga gctccggcag 180
 cccgtggtac gggcccgacc gcgtgctcta gctgggcccc ctgtccgggg cgcctccgag 240
 ctacctgacg ggcgagttcc cgggcgacta cggctgggaa accgcggggc tgtcgggggg 300
 accggggacg ttcgccaaga aaccggagct ggaggtcaac cagtcccgtt gggccatgct 360
 ggggccgttg gg 372

<210> 17566

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-C10

<400> 17566

atgaccaagc agagtgcgca cgacgcgaca atcaagtccg tagctccggc ggtagacttt 60
 gatatggctt tagctcgtct gtgcctcaac agggccatcg ctggccgcgc gcaggcgctg 120
 gcgaggcccg cgctcgccgc agccccggcg acagatccga aacttcactc gcttctctca 180
 acctcggcag ccgactctgc cgcctcaggc gaggcaaacc gccgagatgt cgcctgtctg 240
 gagcgctccg cccccaatcg ccgctgggca tggcgagacc tccgcgactt caccgccgtc 300
 agcctcgtgg acggtctcgg gagcgcgctg tcgcaggtgg cggagaccct gggccgcccc 360
 ctggagcgcc tggcgc 376

<210> 17567

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-C11

<400> 17567

gctagcgctt atagcttgct agccatggcc accgccgccc cgtctagcct cctcaagtcc 60
 tccttcgggg gctcccggtt cccggccgcc acgcggacca caccggcgct cctcgtgggtg 120
 gccaccggcc cgcgcggcgc cggcgcgggg cccatctgcg cgtccatgct catgtcctcc 180
 tccaaccgac cctacgacct gacgtccttc cggttcagcc ccatcaagga gtccatcggtg 240

tcccgcgaga tgacccgtcg ctacatgacg gacatgatca cctacgccga caccgacgtc 300
gtcatcgtgg ggcgcgggtc cgcgggggtg tcttgccgtg acgagctctc caaggacccc 360
gccgtgagca tcgccatcgt g 381

<210> 17568

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-C4

<400> 17568

cccacgcgtc cgctctgtaa gactagacta tcagaatttg atttggcaaa tcgttcgttg 60
taccaactag ctagacgcta gttagtgcc a tagtgacgt gcgctctgac gtgacgattt 120
cagttcacgt gcagaagtcg gggtccgcgc gccatggcca tccccggatt cggcagctgc 180
gcggacggcc ggactgcagc cggcaggcgg aagtgatggg cagcaccgtc gacgacgacg 240
aggcgtgcga gctggtgagc ggctcggacc tcgtcatcgg cgagggagac gacagcgtca 300
gcgcgtacct tttcaaggcc gtcaagaaca acaatggcac cggcatcctc ctgctctccg 360
acatcttcgg cttccaggac tccgccacgc gggacttcgc ctaccgc 407

<210> 17569

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-C6

<400> 17569

attacactag cgttcggcag gaagcaaacg caaacgcgtg tcgacgtcag ccggccacgc 60
caca 64

<210> 17570

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-C7

<400> 17570

acagacgcgt ggggttctga ctgcatgtat ggttttattt cagaatctta attgcactgt 60
 ttataatttt cttatgtgtg tagtttattt gatgcacagg aaatgcaagt taataatgag 120
 gcaccactag ggtgcctcaa gccaaatatt tctcagtata actctccaga gcagataggt 180
 ggtgttgaag ggtttcctga gaataatgaa aaaaggaatg atattgttgc tgcggaaaaa 240
 atctgggagg cgactccaaa ccaaggcctt agcaggccca tctaccgaca agaattttat 300
 gcctggccat atatttatto agattatcaa atcgtgcgtc agccactacc ttaaagtttt 360
 gacaaccaat tttatcataa atagggacca 390

<210> 17571

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-C8

<400> 17571

aatctaactt ttacttgtgt attgatttat gggtaagggt aatcgtcata tacatgatac 60
 atcacactac atatagatag ttgggtactc agtactcgat cgtttacatc tccagcacat 120
 aagttgatga tacaaggatt cagaaaaatag aaatataaac atatatacac aaaagaaaca 180
 taagctagat caggcctaaa tatcattctg catgaacgga agcttgcaag gtcttccaca 240
 agtgcgtggg ttcgaattac aagcagacag tacatctgct gctgggcatt gcataatatg 300
 ccggcctgta gcaagtgtga gcgtctctgc agggcttggg gcagctgtat tattagctcc 360
 agcacgtcac t 371

<210> 17572

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-C9

<400> 17572

agttgattcc aaaacctctt cttttgaaga aacaacatca gcaaaggcat caaggtcacc 60
 agtacgtat gcttcagggc attgatgaat cagtgggagc agaattgggg gaacatcatg 120
 aggacgcaca tgaccacgag gagtttgagt tcggtgaagt ttttgttcac caactgattc 180

acacgataga atttgttctg ggtgcagtct caaacaccgc ttcatacctt cgtctttggg 240
 ctctgagtct tgcacactct gagttgtcca ctgtattcta cgagaaagta ctaatgacgg 300
 catatggggtt taacaatggtt ttcaccttta ttattgggtg cgtcatcttc atctttgcca 360
 cgattgggtgt ottgcttgtt atggagaccc tgagtgcatt ccttcacgcg ctgag 415

<210> 17573

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-D10

<400> 17573

ggcaacagca gctccggcgg cgacctgttc tccagcggca agctggtggc gggggccgcc 60
 gtgtcgggtgt tccagcagaa gacggtggag aacgtcgaca agcaggaggt cgccggcgcg 120
 gcggccgagc tctgcacgc ggcgtccgcg tacggtaagc tcgacgacaa gccggccggg 180
 cagtacgtcg agaaggccga ggggtacctg aaggagttca gcgcgggaca cgccaccgag 240
 caggagcagc ctgcggcggc agcaggcgac gacgcggcgc ccaagccacc ggcgcgggag 300
 gcgcccgaagg agccggcggc ggtgcctgcg cgggccgcgg aggaaggcag caagtcgtcg 360
 gagggcttcg ggctcggcga cgtcatgaag ggggccgagc aactggtggg aaggaagcag 420
 caaggggggg g 431

<210> 17574

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-D4

<400> 17574

accacgcgtc cgaaaacatt tacagattcg tcatacccggt caatagattg gtctgtgttc 60
 tctcgtgggtg cctggatgct atgtagttca ttggtactgc tgccgtatga atttcgatga 120
 ttgctctggt gacttggttt gtaatctgga gttggactat cgttggtttct gccgcataaa 180
 tttcgatgat tggtc 195

<210> 17575

<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-D6

<400> 17575

accacgcgtc cgcccacgcg tccgaaggtc cttgattaca agactcaaca aagcagactc 60
tttccgttgc tggtttcagc atatgcattt agatttgtgg gtgactggct gaagtggcta 120
tacatggatg tcaactcagaa actggaagct aaagactact caaactgca agaagcccat 180
gcctgtactg ctggtttgaa ggctgtgaca acatctgcaa cagctgatgc cattgaagaa 240
tgtagaaagc tctgtggcgg acatgggttac ctgaacagca gtgggcttcc tgaattgttt 300
gctgtctatg ttctgtctg cacttatgaa cgagacaata ttgttctgct tttgcagggt 360
gc 362

<210> 17576
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-D9

<400> 17576

accacacgga ttagatcacc gagaaggatt ggtgatgagc ttctaagttc tagaggcggg 60
gcgccacagg gcaactgctcg tgaagtgagc gaaatggggg caactcgatt cgcaagcgct 120
gatcgtcgat attaccaccg cagttggact catacgtgcg atcttaaadc cgctaaggac 180
tcccttggat accatcactc atcgtgacag gctgcatcag tgtagtcacc tgatccttca 240
attaacagcg cttcgagaga gtaactccaa agggctgtct tatcagacat cagcactg 298

<210> 17577
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-E10

<400> 17577

ggacagacat catcgccaag attgtaggcc ggctcgggct tgataaaacc atgtttgaag 60

cttccaactc caacacctcg gagtggttcg tcagacgtta tggcccaagg gtaaattctt 120
 ttgttgaaca ctctgacgtg atgaatctgg agcgctccg gggcttcaac atgcgcagaa 180
 gcaactcggc ctcccgtttt gctcgcctg tcttacacat ctcaggaagg ggaatgggca 240
 ttagccatt agatcacgaa gatacttcta catgttctca cctcgcaga gcttggtatg 300
 gcctagagat gtaaccgct ttgttaatgc ctccatgtag ccccgagca gcaacgcat 359

<210> 17578
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-E4

<400> 17578

aggacacgtg ggcaagtcgc tcatacaggc gttcccgctg cagtcgctgt tcgcgggcgg 60
 tggcaggggc atgaaggacc cgcagacggt gttcgtcgca cgcgccacag ggcacgccgg 120
 ggtccgcata gcgcagaccc tgctgcggca cgggtttgcc gtgcgcgctg gcgtcccgga 180
 cctagcgtcg gcgcaggagc tagcgcgggt ggcggcggca taccgggtca tctccccgc 240
 ggaagcgcgg cggctaaacg ccgtataggc gggcttctgt gaccccgacg cgataaccaa 300
 gtccatcggc cccgccgca aagtgggtgt caccgtccgc tcggccgaga aagggccaca 360
 agggcgaggc gtcaccaccg acgacgcgt cccagtgggt cggg 404

<210> 17579
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-E6

<400> 17579

aggacgcgtg ggcggacgcg tgggcggacg cgtgggaaaa gaaatttggg gaagagattg 60
 atcaagatct tttgtattta atatctgttg accggatctt gcacatggaa gatttcaatg 120
 aggatggcat gtgggtagtt ccatcagact acaccagtgc agaacctgat cctctacgca 180
 attttgctga aaacatcgtg gaggaattta acaacaaaaa tgctgaagac gtccgtagga 240
 tataacaacat atatgtcgaa tcagatttac aggtggcaga cgtgaagatg atatgggttg 300

acaggctagg ttctgatctc cacgctcatt ctgcggaagg cgttttggct gttcgggtcc 360
cttttcctat ggaggtctcc gacgacaagg ggggtgaaatc ctcgttc 407

<210> 17580
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-E7

<400> 17580

atgacatccc tgattggtgc tttgtcgaga tttatggaaa agaagggaaa aagtacttct 60
oagagtctcc ttcagtagac gatctttgtc aattccacca gaagtcacca atttcacata 120
ttgcaaaggt caagacacca acactcttct tttctggagc gcaagatctc agagttcctg 180
tttctaattg cctgcagtat gcaagggtt tgaaggagag gggaaatcgaa acgaaaacta 240
ttatcttccc agaagatatc catggaattg acaagcctca gtctgatttc gaaagcttcg 300
tcaacatagg ggtttggttc aagaagcaca tgggcaaata aacattagtg cttcccatta 360
cattcatgat ttactttttc attgttacta aatgcctgta actgggtcaa agta 414

<210> 17581
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-E9

<400> 17581

agtcgctagt cgctcgctcc atcaccgata accaagatcc caagacctcc tccagcctcc 60
tctgctctcg cgccggcacc cgcacgcatg gctgcctgtg tcgacaagtg gcaccccacg 120
cacgccggcc gcctcacccg cgccatctac cgctacttgc cggacggcgc cacggaccgc 180
gcggtggccg ccgcccgcgc cgcgccggcg tccgcgagcg gcggcgacga cgacgacgtc 240
tgggacgagc tgcgcgcgga ggcgcaggcc gacgcggacg ccgagcctct gctccgcaag 300
tactacgccg acctcgctct gtgcgcgccg tcgctggagg ccgcctctgc cgcgcacctg 360
tcgggccaac tctgcgtccc cggcgcgctg ccgcagga 398

<210> 17582

<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-F10

<400> 17582

accacgcgtc cgcccacgcg tccggaaggg gaacccgaac ccgcggagct actacaagtg 60
caccacggcg ggggtgcccgg tgcggaagca cgtggagcgc gcgtcccacg acacgcgcgc 120
cgtgatcacc acgtacgagg gcaagcacia ccacgacgtg cccgtggggc gcggcgccgc 180
cagccgagct gctgctgctg cggcgggggg ttccggggcc ttgatggcca ccggcgggcg 240
ccagctcggc tatcagcagc agcagcagca gcagccatac accctggaga tgctgagcag 300
cggatcgtac ggcgggggcc gcggcgggta c 331

<210> 17583
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-F4

<400> 17583

tgccagttcc cctacaactt cactgggtgc caagacctcg ccaagcagaa gaaagtcccc 60
ttcatcagcg acgacctcca gattgagtgc caaggaacg gagaagttca agtgcggcgc 120
caacgttttc tggaaatggt gaaacagcta gcaacaccgt ctgatgggaa tggatgagat 180
catcacctgt cctgtcgacc ccagatatgt ccaaactgca gggaa 225

<210> 17584
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-F6

<400> 17584

ataaaaaaaaa gttagacaaa ccaatgagggc caaagaatga agtttgaaca ttttgttttc 60
ttttttccct aattatacct agtagtgagt acaggagtca ggtctaccag aggtaatagt 120
gaatagcagc aggcacagct gtcatgggca gggctaccat gagcacgcaa tcaggcaggc 180

aaagtgttga agaaaggaaa caagaagcag gccacggacg agctggaccg ccagaagcag 240
 gcggagaaca agccgcgccg acttgagaaa ggccctggcaa actcggctgc cataatctcg 300
 ggggctggac aaggagaagc agcagaaga 329

<210> 17585

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-010-Q1-E1-F7

<400> 17585

accacgcgtc cgcgcgctcg cgcgctcgtc accaactggg cgctcgtgtc catgaaccac 60
 gaçacgcagt cctgcatgga cccaacgtc atggagggca aagtcgtggt cagctcctgc 120
 gggcacgacg ggcccttcgg cgccaccggc gtcaagaggc tccaggacat cggcatgac 180
 agcgccgtgc cggggatgaa ggcgctcgac atgaacaccg ccgaggacga gatcgtgcgc 240
 ctacgcgcg aggtcggttc cgcatgac gtcaccggaa tggaggtcgc cgagattgac 300
 tgcgccccca ggatgggccc gacgtttggc gccatgatga tctccggcca gaacgcngcg 360
 cacctggcgc tcaaggccct gggcaagccc aacgccgtgg accggaccat g 411

<210> 17586

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-F8

<400> 17586

accgtccgct ccaccaacc acctcatccc tctccgccac gggccgcggc cgaccgccgg 60
 ctccgtggcc tcgacaccag ttgacgagga gcacatctac tctacagatg cttggtcaat 120
 atccggcggc ggcatatgtc aactctcccc ttatgcatg gaactgcaa ctgcgcgtgc 180
 tggtcggagt gctctggatc gaggtttgct gctgcgcgcc gtgttgggag ggaagctgcc 240
 gtctcctggc gctgggagaa gccggggacc ctctgtttgc tgacggcaag atctccttc 300
 ttgggcaggc agtccaggaa ggtgcaatgg gctatcagaa gcatgtccga cgacagcggt 360
 gaccagtcat gcaacagcac tcgcctcttc ag 392

<210> 17587
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-G3

<400> 17587

aggacgcgtg ggctcagtaa caacaatggt tctgagcttg ataatacctc ttttaacaat 60
gggcatggta tggccctgga ctggaccagc agcatcagcg actccttgccc cttatttggt 120
tggactggtt gtacagtttg catttgaaca gtatgcacgg catcggaat caccttcttg 180
ggcagtgatt cctaatatct tcaagtttgt gatctgatca atcgtacctg atatttggga 240
actgggactt gggattggct atcagtgtat caagtacttc tggagtctac tgggagcatt 300
ttgaggaatc atgggcagta actaagactg ggaaatgt 338

<210> 17588
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-G4

<400> 17588

cccgacccgg ttccggcgacg gcagtgggca accggcgccc gggcgtgggg ctcaaaccgg 60
cgggtggacgc aatcgtcgcc gggctgcgcg ccgccggctc caaccacgc cggacgctgt 120
tcctggacga cagccagagg aacatcgccg cggggaaagc gctcggcctc cgcaccgccc 180
tggttggcaa gagggcgagg agcaaggaag cggactacgc ggtggagaac atcggcgcg 240
tccggcgggc catcccgag atctggggcg aggcgctga acgctcctcc gacaagctgc 300
cggtgccggc cgtgagcgtg gtgaggtcga cgacgtccga cctggactcc atcatcatcc 360
agcccacgtc catccacgcc taat 384

<210> 17589
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-G7

<400> 17589

agttcatgta ctttaagctgt caaagaacat tgactacttg agggatcaga tgaattccag 60
ctactatcac aaggacatgc atgacccatg tgtcaactct gtaacactac agcagcaaga 120
cgaagaaatg cctgaagttg ctcccatgag ttcagagcct gaggttgaga agtggacatc 180
agttgagatt gatagagcct tagatttaac aaagtctgga gtccctgtgg aagatatgca 240
gagcaaagtc tgtttcaaca agcttgaaga tgattcttct gcgactgcag gtccatgtct 300
gactgggagt tcaattgcag cttcatccta taatctgac agacatcaaa accaacgtag 360
ctctactgtg acatccagtc ctgatggctg gtacg 395

<210> 17590

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-G8

<400> 17590

agtgcgcgtc cactgctcag ctagcgtcca cctccacttc ctatcgccat ctctccccct 60
ttcgtcatcc ttctctctcc tctgccatcg cgctcgccgc cccaccgcca tccgcgccga 120
agctgaagtg cggcctccgc tacctgtctc cgcgggcgag tcagagcccc ctgacgccgg 180
cgctgtggaa gccgaaggtc agggaccogt ggagctccgc gctccgacgc tcttctcgac 240
tgatgacaat cccacccgc tccagactgc caccagtctc ctctcaccg gcgccatctc 300
ggtcttctc ttccgcgcc tccgcgcgc cgcccgccgc gccaaaggag tcagagtgcg 360
gtccagcggg ttgacgaagc ccagcaatct caccg 395

<210> 17591

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-G9

<400> 17591

acttcaacaa gcagggttcc agaagaacga caagctgttg cagagggtgc tgatgacgac 60
gaggaagacc tagaagagat cagggcacgg cttgctaaag tgaggtcgta aatcatatac 120

atatctgagt tttctaacct ggggagccca tggctcacaa aatatggtgc caaaacccgt 180
gtattgtgaa ctgagtcgat agcaatgcaa tttttttttt aattggccct cgagtcgacc 240
atatatgaag tggcactcta ttgtgtaca acgctacgag agtggcatgg aatatcgga 300
tatggatagc g 311

<210> 17592

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-011-Q1-E1-B4

<400> 17592

accacgcgtc cggctccggt cacagtgaag ctgccacagg tgagttagca gatattgagc 60
ctcaaaatat agaaaaggaa ggtttagttg ccaatcatgg caaagaagat ggcaagttgg 120
tacctgtaat tgcttcaagg agtcaaaga tagtcgaata agttggctat agaagaatca 180
ccaatgatgt aggatgtacg agagtaacc tagaaagtgg ttgagagtt aattcagata 240
tggaactatag aagcagagct ccagaaagcc acgaggtgca gcatcttata catctgtcag 300
aacctgctgg ttacatggg aaatttatag gagaatcttc aggtgctggg gacaataact 360
gttctggttc actatgcact gagagtgtg ag 392

<210> 17593

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-011-Q1-E1-B9

<400> 17593

cccagacatc atcgtagcat acaccgctgc agtttctaga gccctctctg ccactcgtga 60
tcccactagt cagcatgctt gccctcgcta agcccgcctc ccgcagcgcc aagcccgcgg 120
cggctccgac gccgaagcct gccgccgcca atccgattgc ggccatcgtt ggtgctcgc 180
acactcctta cttccagatg atcaacgagg ttatcacggc gctaaagtga atgaccggct 240
cgaattcgca agcgatctcc acgtaagtgg gggaaaagca ccgtgcgtct cggcctgtta 300
acttcaagaa catgccttcc aatcagctcc gttgggtccg agtc 344

<210> 17594
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-011-Q1-E1-C3

 <400> 17594

```

aacaaaaactg atgtggcgac ggacaacgaa gcaggtcatg gcgtcccagc cgcagcttct   60
gactctgtgg tggatgatgg cgcgcatgcc gcgaccttgg agccggaaga agaatectcc  120
gaccctttcg gtttagatgg tcttcttgag cacaggccta agaagacgtc tgggagagct  180
cgagagaagg cagtcgcggc tctgaacaga aagacggtcg aggaggaagc aaagaggggt  240
ctcaagtgcg agcgggaggg ccttctgaaa tgcttgaaa tagccgctcg gcgctacaga  300
atcccgaggc cacagaccgc cattgacatt ttggcgaagc acgcgtacga cgacgcggcc  360
cggttcacac ggcggcagcg ggacgcgacg gctaaggcgt tgg                               403
  
```

<210> 17595
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-011-Q1-E1-C4

 <400> 17595

```

aggacgcgtg ggcggacgcg tggggcccg cctccgcacc agagcgcgaa cctggccagc   60
gagttgagcg cgatggcgag caccagcgcc aggaacagcg ccgccagcag gatcaccgtg  120
ttggtgtcga acgtcgcgtc gacgaccccg ggcgcccgcg cgcgcgctcc tccgacgccg  180
ccagtgccgt tcaggggagc ccccggcgac tcggaggagt cccggtggtc cagtcgcgag  240
cacgtcgctc gcacgaaggc acgcgcattc ctgccgtgct cagtccgcgg cagcaactga  300
tagctagtcg ccaggcgcgt tccggga                               327
  
```

<210> 17596
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-011-Q1-E1-C8

<400> 17596

accacgcgtc cggagttttg gcttgtccgg atggagaagc cgggagttga agttgtgaca 60
aaggcccaaa tggatgatca ctacacccaa atccttatga aagtgttggg gaacgaacat 120
gatgctcagg ttactatata tca'cgtttca tgggataggg attatggttt ctgttgtcat 180
attgatgaag aatgcgcaaa agagttagct gatgttctcg gagtgttata cgttcaaccc 240
gataactaact ttggatcaga caacaaaaat tacaaggtg atgatggcgt gaaatcatct 300
gaagggactg gatcggtcga tatcaaaact aaaagggctt ttgttacaag cttttcattt 360
tagacatctg ataaaacct accggcagcg tttgagcctt tcgggtg 406

<210> 17597

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-011-Q1-E1-F11

<400> 17597

gtcaggagcg cgtccgggaa attcattgcc tgctaatacc ttaaattaca tccaaaaact 60
tcatgaggaa tttgagacct caatgtcaga tgatcttcac acttcagtgg cattggctgc 120
tatttctgag ccattgaaag ttatgaatga tctgttgac actcgtaagg gaaagaagca 180
ggacaaaagg ctggaatctc tttctgcctt agaagagaaa ataacactag ttctctctgt 240
tcgaagattg ctaccttcaa gttatcatga tgctttgcaa cagctgcggg ataaggcact 300
gagacgagct tccatcaccg aggatcttgt ggtgcagaag attgaagata tgactggagc 360
aatgaaggca aagcagtatg acaaatccga ccagatccgg 400

<210> 17598

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-011-Q1-E1-F9

<400> 17598

gccaggagcg acacacgacg ctaaacttag tcctagcagg agacagagag ccgggaaacc 60
cgcgacaggc tgccgtgcta tggactacgg accgtcgagt ccgccatagc gaacgacgga 120

gaaggggatg gccgggatcc ggccgatcat acacgactgg gagccggtgg ttgtgccaaa 180
gactgcagcc accgccgctg ccaacaacga tgacaacgcc gtcaacgccg cgcgccgctc 240
cggcgcgggcc atcgagacca tgaacaagta caacgctggc ccgaacaccg cggcctccat 300
cggcacctcc ctcaacacca agcaccgccg ccatcagaca gagagcttcg cccatcg 357

<210> 17599
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-011-Q1-E1-G3

<400> 17599

aaccatctac cagcgactca tcgagcgaga gcagcacaca cgcagctagc taggagcagc 60
agcagagcag cggcgatggc ggccctccatg atctctctgt cagctctggc ggtggcgcct 120
cagggcctgc cgccctcgg ccgcgcgcgc tctctcttcg ccgtcgtctg ctccaagaag 180
aagatcaaga ccgataagcc ctacgggatt ggggggtggcc tgaccgtcga cgtcgacgcc 240
aacgggagag agggcaaggg caagggcgtg taccagtctg tcgacaagta cggcccgaac 300
gtcgacggat acagcccaat ctacaacgag gatgagtggc ctcccaccgg ggacgtcgac 360
gtcgggtggg acactgggct tctgatccgg 390

<210> 17600
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-011-Q1-E1-G4

<400> 17600

aaacacgcgt ccggtcaagc ttgcttagct agccgccatg gcctccctcg ccgccgtctc 60
cgtgaagccc gtggccatca agggctctgc cggcagctcc atctccggaa ggaagctcgc 120
cgtcgccagg ccgtcggccc gctccatccg caggccccgc gcagccgccg tgggtggccaa 180
gtacggcgac aagagcgtct actttgacct cgacgacatc ggcaacacca ccggacagtg 240
ggacctctac ggctctgacg cgcctctgcc ctacaaccgg ctacagagca agttcttcga 300
gacgttcgag gctccgttca ccaatagagg tctgctgctc aagttcctgc tgctgggcgg 360

cggtcactt ctggcctacg tcagcgcgtc gggtctacc ggacttcctg ccga 414

<210> 17601

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-011-Q1-E1-G9

<400> 17601

gggccacgca cgcgtccgaa tggcattgtc atccgcaacc catccagagc gaatccagct 60
aacccttcaa ttgagcttgg acctgagttc aagaagggtg ccaatttcct tgctcggttc 120
aagtccatcc ccagcatagt tgagcttgac agcttgaagg tttctgggtga tgtctggttt 180
ggctctggaa ttactctcaa gggcaatgtg acaattatcg ccaagcctgg agtgaagttg 240
gagattccag atggagacgt acttgagaac aaggatgtca atgggcctga ggatctttaa 300
gcaatgtctg tcatcaccag tttttcccaa ggacatgtca caggaaactgc cgagcctaata 360
cactcctact gagctctata tttttgtaat tttcatgtgc attccgattc cgctgcgagg 420
gtcatgtgag ccc 433

<210> 17602

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-A12

<400> 17602

tcccgggtcg acacaagact ctaaactgag tcgtagcaaa ctaataggcg gtaagatgga 60
tgacatcaca gttgttgcg cacaagtga gacagtagtg gtcccatagg acgaggttca 120
gggtggcgac acagaagaac ataaggggaa tgagcagggc gctgcagctg tggttgcata 180
caaatgaat gatgaagaag tcgcttgagt tttgggacca tctcattttt acctttttgt 240
gatgactgta ttatactgca cataaaggaa ttgaagcaaa atacatttgt gtgattgtgt 300
ctaaaaggaa aagaaaagtt ctagatcgcg a 331

<210> 17603

<211> 111

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-012-Q1-E1-B10
 <400> 17603
 actcacgggt cgacacaagc ctccagagaa acacgtaaca ttcgagattt tggatacaaa 60
 tcggaaaaat ccatttatat tgtttttaca tcgacttgca gttctgatgt c 111

<210> 17604
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-012-Q1-E1-B12
 <400> 17604
 aaactgagtc taaagaagct caaccagtc attcaactga attcacagaa gtgcactggt 60
 caaagccaac tgaatcagca gctgtagatg tcccaaagg aaacacatcc attaccagca 120
 gctttgtgga aaagcttggt ggtattcgtc ctggttctgc aaacctcaat agctcagggg 180
 caaatcaatc agcagccaga atacctgatc caattcatag tcatacagat gggcactcag 240
 atttttcgtc atcctttgag cacaataaca tgactggcaa acatacttca ataagcgaac 300
 ttctagaatt tgaggggagt gctgatactg gcaccaagat atactcaact gacatgagaa 360
 ataacgctgt gtctgcatca agcttttcag gcattgcaca aaggtttctt gctaata 416

<210> 17605
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-012-Q1-E1-D12
 <400> 17605
 tacacacacg tctggcaggc tctagcttca aagaggaagg agcttgctga atttaaaggg 60
 aaattagaaa acgcaagaat tgaagccaat ttagtaagag ttgttgtaga atcactcagc 120
 tcagagcttg atagggagaa agcttcactt gctacattgc agcagactga gggatatggca 180
 tgcatacacg ttgcttctcg agaagctgag ctcgacagga cagagcaaga gatagaattg 240
 gtacataaga aagaagcaga aactcgggaa atgatggcgg agcttccaag gatgttgtag 300

caagcagccc aggaggcaga cgatgccaaag atggcagctc atttgggaca ggaagaactg 360
 agaaaggcca gggaagaagc tgagcgaact a 391

<210> 17606
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-D9

<400> 17606

ctcgcgggtc gacacaagcc tctacagtga gtcgatagta tgcagcctgg cttcggaaac 60
 cagcagtgcg gttecgctacc accaacatcc atgctgggca tgcaattcgg tggcatgcag 120
 cctccgcaga tgtatggcgg atcgcagcca gtcattgatg acccgcaaca aatggcagtg 180
 gccagtatg gagcaatgcc gcggcagcag ccgacgtatg gtggtcgatt ggccgggttac 240
 atgcagcatc ctgctgtggc tgccgcacac tactacaaca accaggggat gtatggctac 300
 cccggtgcga acgggctgtc acagagcatg tatggcctct cgggtgcagga caactcgctc 360
 atggggatga ggtcgtctta ccagactacg acggcgccac cctccacggg gcaacctatg 420
 aagccgacga agcccgaaga 440

<210> 17607
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-F9

<400> 17607

tcgcgggtcg acacacgcct ctagagtgc tctaggagg agagagagaa gtgggagacc 60
 cgcgagagggc tgccgtgtag ggactaggga ccgtagagta agcgacagcg aaggagggag 120
 agggggatgg ccgggatcgg gccgatcaga caggactggg agccggtggg tgtgcggaag 180
 aaggcaccca ccgccgtgc caagaaggat gagaaggccg tcaacgccgc gcgccgctcc 240
 ggccgaggaga tcgagaccat gaagaactac aacgctggta tgaacaaggc ggcgtccagc 300
 ggcacatccc tcaacaccaa gcgcctcgac gaatgacaca gagaacctcg cccatgagcg 360
 agttcaagtg acctgaagaa acatctcatg caagcaaggc tcgatcatga agttggccca 420

ggcacatctt gctcaga

437

<210> 17608

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-A3

<400> 17608

agagacgctt cttgggtcaaa tttagacctt gatcctggac tattcgcaact tcttggcgcg 60

gaatctttcc tcgggtggaac aatgaggatg actgtgtcag tctgcgtgat acttctggag 120

qtcaccaatg acctccttat gctcccgta gtcattgctg ttcttctgat atcaaagacc 180

atagccgaca gctttaacac atgggtttat gatcagattg tggatgatgaa aggcttgcca 240

ttcctggaag ctcatgcca accatacatg acgcacttgg ttgctagcga tgttgtgtct 300

gggccactga tctccttttc aggcgtccat agagtgggga atatcgttca ggcgttgagg 360

atcacaggcc acaacggatt tcaagtggtc gatgagccac ctctatc 407

<210> 17609

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-A8

<400> 17609

ctcgcgggtc gacgcacgcc tctacactga cgttgtgcta ctatccgcc tcgcatggc 60

catgaccgtg gcattccgct ggcttccgtc gaccgcctct cgccggagaa tcttatcctc 120

tccgtccct tcgttcgagg ttcttatctc catccacatg ccacggcggg cgcgcctcgc 180

cagtccttc cctcgaaagc cgcgcctctt cgtgcctcc ggcagctcg atttctocag 240

agctgttcaa acagcatgga gggccgtaa cgtatgctgtg gatgcaggaa gtaatcgtgt 300

cgcaggttca gttccacgag caattgccag gatagggtgtt gcctttgctg ctgtgtcggt 360

tgcttttttc cgtgtcaaat ccattgtgtc cactgcatta tttgttctgg g 411

<210> 17610

<211> 234

<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-B3

<400> 17610

gtcgacacaa gcctctacac tgacgtcgtg ttattgcaca tcactagagc gagctgtgtg 60
tgtgtgtgtt cgtcagttcc tcgatcatgg caaacgcgca tgcgcaagtg gctgtaaggt 120
tcatgatgta tgtggcaccg cagcaggtgg tgtctgtcat gcggctgtgg aacgcgccga 180
cgagcctgag taccatcacc tatgacgaca cggagatgct ggttctgtgc tggt 234

<210> 17611
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-B4

<400> 17611

atacatgact ccaacctaac gtgactcgta ttaaaccgcg ggcttctgca ctctgtgtgc 60
cactgcacct gcccatgccg ccctaagccc ttctgacgag ctcatggaag cacagcgcca 120
tgtgcctgtc ccccaggcca agctgcggcg gcggcatccg ccgcggacac caggcgcagc 180
tttcaattag aggcgcagct cctcacgttc acgcgctgg 219

<210> 17612
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-C3

<400> 17612

agtcgacatc gtcctcgtga aggacggtct acgtgagatt gtcctcttgt cgagatcctc 60
acgtcccggc cctcaccacg ggtggccacg ggggtgtgaca tgatactagg agatgtaacg 120
gagcaaagaa ttctgagagg agccaaagat gaggataagg gatactgaag atcctcgtcg 180
agctggacaa ggatctcaag tctgctctgt gcgatttggg agacgtcctg gatgttattg 240
aatatcgctg aatcgagaag aaagtcatcg gtggtgacaa aaagttgatc agcactacta 300
tttgcatctg ggcgctgcaa gctattggcg attggatcac ctactggaag cgtagctcgt 360

tcgggcaaaa gctgttgagc tgcgcgcgcc cagaaccagt atcagaagct cag 413

<210> 17613

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-C4

<400> 17613

gggtcgacac aagcctctag aggacatcca agcagtcagc ataagatttg ctctgggttag 60

gctacctccg cgccgcgctg gaactccctc ccggtgaggt tgttgaaacc gacaaggaac 120

ggggacgtgg ggcccgagga aggtcacgct gctaattttt ttccttcgcy atcgatccct 180

tccgcctccg gattcgccct gctcttggtc ctccgctggt ttcctcgatcg gttggctggt 240

gactctgccc ctgcccctgc ccctgccccg gcccgatcc gggggaatct gattcgccgt 300

tgggcgggcy ggagagattg ggttcttggg tctggtgccc gtgcgcccgc cgtaatttgg 360

gagcagatag aaacacgaaa ggggagc 387

<210> 17614

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-C5

<400> 17614

cggacacgtg ggcggacgcy tgggtttttt tatttatact cttcattgta aattataaga 60

cgctagatat aatgttttaa ttatatacac gatataataa catatactag taaacataat 120

atgtaataa aaagataaaa gtattttaca atttggagtg gaaggagtag cagcagtgca 180

aaagagatgt taaaaatgcc tcttcgtgca gctctatgat ggcctacaac aacatccagc 240

gccaaagtctg gcgcgaaagg cctacgaagc ctgcagccca tagagtcgac gatcccaact 300

catgtgagtg gggagtcac gatccagggt catgtgaatg tgggctgcgc g 351

<210> 17615

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-C8

<400> 17615

gggtcaacac actagtctaa agtcacttat actacgcaat atactgctca caatgcactg 60
catttgggtc agtctctcaa tacggcactg cgtgttcgtg gagacacatc tagcggccta 120
accttattcc cggcgtatgt gctgctgtta ctatcttacc atcttaattc ttatcataca 180
tctccatatt cgacatactc ttgctgaagt tctgtttttc ctatc 225

<210> 17616

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-D1

<400> 17616

gcttgtgaca tcgcggcgcg gcgctgtgaa ccacctctct attgaccgtc aactgggtgt 60
ttccccggct gtcttcgcbc gagcacgaa gtgttgaaca cctagaagaa gtgggtgtctg 120
aagaaggagt tcacttcagt gcctgctgat ccagtgggtg agtttcatct aactgcttac 180
cacaatagaa ggattttaga tcttctcctg caataaggaa agaatttgat gacttgggct 240
ttattagttg cttcttgtgg aggtcttgaa gcttaggtta cttatgtgta tattttatgg 300
aaaggtttca cttttccaaa tattgtagtt aagttatgca ctctaaagac tatcaggact 360
tgtaataatt tcaatccctt ttgtgggtgta agacttcagt tctgg 405

<210> 17617

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-D2

<400> 17617

gtataactga tcgttgagga gagcagtgat caaagtctca actctgaggc agatgatgtc 60
cttgccagga gtcgtcgcac tcgcaatgtg atctttggca actattgtaa gtcgcatcag 120
aacattgcgc tcaattcagt tcatgggtgat ggaattgcgc cgtttcatcc atctgggtac 180
cataatatga tggggtcaca tcatcgcccc aatcaatgaa ttaactggag cagctaggac 240

tttaatatatt tgcacgtgt ggaagtcata attcttatgg tacttatgtg tataatttat 300
 tgacagggttt cacctttcca aataccgtaa ttaaattagg cactccacca actatgacga 360
 catgggacac gttcactacc 380

<210> 17618

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-D4

<400> 17618

attgattatc gtaaggaggt actcactgag aaggttcctt tccagaactc tgggtcctgca 60
 tccattaata aacattcagt gctccagaat aacggtaaaa cacgagttaa ggatccagag 120
 aaaaagcagc aagcgggaga cgaagaagct cgcaaagaag ctggtaatga aaaatctcat 180
 gaaacaggag cttcatctca gagaagatgt gatcctcctt cgaatcatga cgttgaggct 240
 gaccaggaag gtagtcttac aacttctatc caatctagt gttctgatga attagaagct 300
 aaaggattgc aagagaagaa ggcagctgta tcaagtaa atctagaagagg tatttcaaag 360
 cgggatcaac atatgcctac ttcaccaagg agaagaat 399

<210> 17619

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-012-Q1-E12-D5

<400> 17619

ctcgttggtc aacacaatcc tctataataa gtctatttac ggcaagcaac cacgggagga 60
 gctcggagcg tcctcctcct ccgctctata aattcccctc cttttcttcc tocatatata 120
 agggccatca gatccaagaa gaggaagag caccaatgat cttcggcgcc cgttcaggat 180
 ccacatcttc ccgagcgaat tcatggttga cctcttctc cttctgaccg gcgggggggg 240
 gcttggggat ggcggtgan tctaccaat caaattttca tgtccgatct ctacattcag 300
 atcccaactg ccttcgatcc cttcgatgac gccaatgctt gggactctgg tgcagcacca 360

gggtcaaacg actagcttca aattcgcac c

391

<210> 17620

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-D8

<400> 17620

gggtcgggac acgcctccga atgaatatct cacggaggta cccactgaga aggttcctta 60

cgagacctca ggtcgtgcat ccagtgcacag acat 94

<210> 17621

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-E2

<400> 17621

caacaccatt tcagcatcat ttcttgggct tggttcctta gttagtgatc ttcacaggtc 60

cttaattaaa caatatggga cttctttaag tctagaacac aagagggttc ctgcaaattgc 120

ggctagcact caattttctg aagcattggc ccaagcatgg tctgagttta atattgcacag 180

tgctgtaatt atgatgattg ttcagccaga agagagaaat atgtatgatc aatactggct 240

ttccaaacat ttgcaagact cacatggcat aacaactata aggaaaacct tatcgcagggt 300

ggaagcggaa ggccagggtc tcccagatgg aactcttctt gtacgtggcc agaaagttgc 360

tgtaatgtat tttagagctg gctatgcacc aaatgattac 400

<210> 17622

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-E3

<400> 17622

gggagagggg tatgcatagg gatgacagag atcgctatgg cgattatcac aggcacaggg 60

atcgcgattc ggaacgtaat gaagactggg acaggggtag atcatctggg atacgcggca 120

ggtcaaggga ggctgaccac tctaagcgca ggcggatgac acctcagtag tcgtagctgg 180
 gtgagctact aatgtagagg caaacgatga tccagagccg agtcttgctt gcacactggc 240
 atgggtaaca gctagcatct tcttgctgcc tctggctgtg gtgggttctaa tatcttggtg 300
 ctccggcaat gtgttgtagc aagaacgaga gatgaatgtc tgggtgggac ctgttgagct 360
 gtgcgaagat ggacctccct ggatgatag 389

<210> 17623
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-E4

<400> 17623

tgaagaagag agcagttgac gatggctcgt atcattcata ccgccctcaa gtccacggga 60
 ggcaagggtcc cccagcaagc aactcgcaca ttttgagctc atgaactcgg cgccgacgac 120
 cggcgggctc aagaatcctc atatgtacat gtccattgcc ctggcgctgc gcgagatgtg 180
 tacgggtatac aatatcacgg agctgcttat tggcatgctg cccttccatc gcctgtttcc 240
 cgagatctct cagcacttca tcacagacct ctggttccat agtcacgcc 289

<210> 17624
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-E5

<400> 17624

ctgcggggtc aacacacgcc tctacactgt ttccaatata cttcgcgccg tcgcgctcca 60
 ggagaagccc ggcctcgtca tctcggcaa gcaggcaatt gatgatgact gcaaccaaac 120
 tggacaaatg ttacctggat tgctcaagta ggcacaagga acctttgcct cgaagggttac 180
 attggacaca gaaaaacaaa atgctactgt tgagcgagaa gttgatggtg gaattgaaac 240
 catctgcctt gatctgccag cagtgatcac cacggattta agacttagcc agccaacata 300
 tgcaactttg cccaacataa tcaaggcaaa atccaaagtt actaagaaag tcgccgctga 360
 agaccttggg gtagatatta cattagacat tgaggtgatt gacgtcaatg aatcaccaca 420

ccgaaaatca ggggt

435

<210> 17625

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-E6

<400> 17625

taacgaggcc ttcgccgagc tcaagggtcaa ggagctcaag aacggccgcc tcgccatgtt 60
ctccatgttc ggattcttcg tccaggccat cgtcaccggg aagggccgcg tcgagaaact 120
cgctgaccac attgoggacc ccgtcaacaa caacgcttgg gcctacgcca ccaacttcgt 180
ccccggcaag tgaggggatgc gccgccggtg acctttaggt gtccggatgc atgtgagcgc 240
acgctggttt tcggtttgtg ccatgatgta cactattgtt caatcgacag ggaatacttg 300
tg 302

<210> 17626

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-F3

<400> 17626

gggtcgacac aagcctccat aacgcggcat ctaagctatc cggtgagaca attgagaaaa 60
tgatggaaga tccagctgtg cagaagatgg tgtatcccta cttgcctgaa gagatgcgga 120
acccaaattc atttaagtgg atgctgcaga atccaatgta ccgccaacaa ctacaggata 180
tgctaaataa catggggcgca actcctgatc aatgggataa ccgcatgctt gatcacctta 240
agaacttcga ccttagcagt ccagaagtgc ggcagcagtt tgcgcaagtt ggcatgactc 300
ctgaggaagt agtatcgaaa ataatggcaa acccagatgt agctgttgca ttccagaatc 360
caaaaatata gacagccatc atggactgct cgcagaaccc tcttaacatt gtaaaata 418

<210> 17627

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-F5

<400> 17627

cgcgctggtc gtcgcaacac cctacagtga cgctgtatta acgcgctccgc ccaactgcgtc 60
cgcggaacgcc tgtgttaact tctactccga aggtgggttg ctcacatgcc tcatcagagg 120
ccgtctcaat gttcatgttg agtggatgct gcttcaaccg cagtgccgct ggtaacccca 180
agatatctta gcagcgatga ggactacgcg tgatcacgga gagggacgca tccgtgatca 240
ccttagacgt ttccacatta gaagtcgac agtgccgtac cattttgctc aactggctat 300
gactcctgaa 310

<210> 17628

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-G1

<400> 17628

ggccagaca cgctctgag gacacgtggg ttcctaaatg tgcccatgg gttagggtgac 60
atggcaacta caaatgcctc cacattgacc ttgtattgcc tgccaaggat gctgttttac 120
gagtcgacag tgttggtacc gtatcatcag ctcttttgat cagctattcc attcaaacac 180
ggaagccaga cttatcatt aatgctggca ttactggtgg catcaatgcc aacggggcaa 240
gcattgggga tgtaatcgtg gcatcagatc tttcattcca tgacaaga 288

<210> 17629

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-G2

<400> 17629

ctccaacgta aagtgaagtc tatcaccgac cacctcgctg accctgtcaa taacaacgcc 60
tgggcctacg ctaccaactt cgtccccgga aagtgatcga gggcatagac atagctgtat 120
ccgtgtagcg tagacatacg tgctcggagt atgtcctgca ggagatgtag cagtatttgt 180
ggtgaacgga ccataggctc agagattg 208

<210> 17630
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-012-Q1-E12-G3

 <400> 17630

 aacacacgtc cgcgcctcgt atgcatacca ctccctcttc gcctatttcg accgcgacaa 60
 cgtggctctc aaaggatttg ccaagttctt caaggaatcc agcgacgagg agagggagca 120
 cgctgaaaag ctcatggagt accagaacaa acgtggaggc agggtgaggc tccaatcgat 180
 tgtgacgcct ttaaccgagt ttgaccaccc tgagaaagga gatgctctgt acgctatgga 240
 gctggctctg gccctggaaa agctgggtcaa tgaaaagctg cacaacctgc atgggtgtggc 300
 aacaagggtc aatgatcctc agctgacaga cttcatcgag agtgagttcc tcgaggagca 360
 ggtggaagcc ataaacaaga tctccaagta tg 392

<210> 17631
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-012-Q1-E12-G5

 <400> 17631

 aatgtgctgg actacattag tggcatgagc aaggggactg atttcgtggg taaagaaagg 60
 gaaactttca tggatcttct cgccgcgctg ctggtgagcg aggagttcca aggcatagtg 120
 tcatccgaaa caggaagctc gtcaagagaa ggtgagcagg caggcagtgg accagaaggc 180
 acagacagcg tcaactgtccc tactagcgct ggggcggctg atacggaggc atccaccgtg 240
 ccaaatagct ccacagatac ggctctgggtg tggctggcgg ccataacgag tgtgatgggtg 300
 ctggtgtcct ccaacctcgg tggctcaggc tacttcaacc cgtgaccgtg agtgaacgca 360
 aactggctg taacttgtaa cggtgacaac aagaaagttc tc 402

<210> 17632
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-G6

<400> 17632

atctgacggg gcgtatcgta cgtttcggcg gcgaagctgg tatccatggc gcgaggcagt 60
ccccgcctcg ccatcatcga cgtcagggat gaggagagga gctaccaggc tcacatcgct 120
ggttcgcacc acttcgccag cggcagcttc gaggcgcgga tgccggagct ggtgcggggc 180
gccagcggca aggacaccct cgttttccac tgccgctga gccaggtagc aggtccaact 240
tgtgcgcgga tgttctcaga ctatctatcg gggaccaatg atgattcagg ggatgggaac 300
atcatgggta ctggagtcac cggtttaacg gctgggaggt ttcagggcag cctgtcctgc 360
agctgcaccg acgctccatt gcatagggac gtgttctt 398

<210> 17633

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-G8

<400> 17633

tagtcttctt caaggcagct ggatacctag actgcgcaat tcgtcatgta cttccgaaga 60
tgccactgga actaaggaga caacttccag tcgacctggc tgaaggaaat ctcaaagctc 120
taagcctgca agccttgggt caggggggtg acatgcagct cggcttggct attgatagtc 180
caaaggccac tttagcagtc aaaaggcgct tagcctgtga gatgggtcaa tattggcaac 240
aagttcaaga gagcattcca gagcttccag tctctgatgg atggggaaaa aagcaccggc 300
tatttggtta gtggaagtat gtttaagcca acgctgcagc atactaattc cacggtttga 360
ctcttgacca gggaaatacc gagaaatccc atggaatggc aataactgca cta 413

<210> 17634

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-H3

<400> 17634

catgatcagc tctacaaaaa aattaagtcg aaggggggta caatgacagc actggttggt 60

aaggcgacag caatggcgct ggttcagcat cctgtggtga actccagctg cagggatggg 120
aagagcttca cctacagcag tagtatcaac attgccgtgg cagtggccat agatggtggg 180
ttgattacac cagttcttca agatgctgat aagcttgaca tttattcatt gtcaaggaaa 240
tggaagaggt tagttgataa ggcgcgagca aagcagttgc agcccatga gtacaactct 300
ggcacgttta ctctctcgaa tcttggtatg tttggagttg ataggtttga tgcaatactg 360
ccacctggaa ctggagcaat catggccgtc ggggcatcag aaccacca 409

<210> 17635

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-H4

<400> 17635

gcagtctgca gtggccactg gatgagaaaa ctaagatgag ttccttgcag acccaacatg 60
cagcgagtga agacgcaccc gtttgatcaa agcagagttc aattctctgc tgtctttata 120
ttaagtcttg ctgccatgat gctgagactt gtgacttccg agagcagtct ttgtgtttga 180
tatccttcct gttgggtctg caaaagtcca gcctttgggt gatgctagtt tcagagagta 240
cagcaattcc ttcacgttg tcacgtcac gtgagttgga tccactactg agggatcctg 300
ttgagaataa actaagcctg aagaggaaat gtactgcagt ggctaccgag ctcagggaat 360
gccaaagaaca ggcttgcttc actggaactg ttgctggctc aggagataga agc 413

<210> 17636

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-H5

<400> 17636

ctcgccggtc gacacacgca actgagaaaa ggctaagttg acgctggaga cgtattacca 60
gaatatcgag tccctgctat caacatatga gaacattatt gttaaagtgc aaggagatgc 120
cacagtggat gctgtctttg ctaagatcga cgagctgctg ggttctatcc tggagaagaa 180
aaatgaaatg gtgtccagca catgagcaag gtaaaaatga ttgggtgcag tgcagatccg 240

acaagtccat gtgatgcaag tcacctctca tgatacgaac ttctccaggg gaatatatcg 300
gaagcacaag acgacacgta caagtaatgt aagccactct cacgtaatgg aaatttctcc 360
atgtggatgt tgtcaaagca tacgatttgt ttctccaat t 401

<210> 17637

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A1

<400> 17637

ggctgactgc agacagccct gtggaaaaca agcggactgc taggagcaag ccaaaggcta 60
accagaacca gaaggatacc aatgcaaata cccgtccaca tgtaaacact cccaatcaag 120
ttaatgctcc aaatgcttat cagacaacgc agcagggata ctgagccgaa ggaagcagct 180
tcttttggaa cccaagtgc gggacttgaa gacgcaggca gcatcatgta gctgctcatg 240
cattgcatgg cacttatcaa gcaaaaacct ctaacatcat cgaccaagtt ggggctgagt 300
agcttggccc ttcacatttc taaattctaa atggttggtt tctgcacggg ggcttggcag 360
gtcgggtgtat ttgaattttg aaatgc 386

<210> 17638

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A11

<400> 17638

acggtcgctt gggcggacgc gtggggcaag tcgcatcgca cgtacggtct caggcgcatc 60
ggcctcgccg ctgcacaacg ccggagacga gacgacggcg gctgcgggat gacggtcttc 120
cacttctca actgcgctt cctcaccttc ggccctcacg tcgtctacta ctccgccacg 180
cccctgtcag agtatgatac aatcggcact tctataaaag cagctgctgt ttatcttga 240
actgcgcttg taaagcttgt ttgcttggca acattgctca aagtacctga gaatgatagc 300
tttgaccctc atcaggagtt aatgaaagtt ttatttggat tcatagatgt agctggactg 360
tattttgctt tgaccagct gaccacaga aacatctctc agaatcataa gttccaggct 420

gttggtc

427

<210> 17639

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A12

<400> 17639

ctcacgggtc gacgcacgcc tctaaacagt gtcttgctag cgcgcacctc acatccgccg 60

ccagcaggtg ccaccgccat ctctgttttc tctctctctc tctctctctc tctctcaagc 120

aacgcccgcc tgcccgcccg ccatggcgac catagccacg atggccctgc tgaagccgcg 180

caggatcgtg gcgcgggtcg cgcgcgcgtc caccagcggc agcgtctcgc tgcgcgtccc 240

ggcgcggggc aagaaggccg cgggtgtccgt gtccgtgtcg tccgcgtcgg cgggcgcctt 300

cttctcggcg ctggcgtcgt cggacgcggc gctggcggcg cagcgcgtgg cggacgtggc 360

ggctgcggcc gactccggga gcgacaaccg cgggcagctg ctgtctctcg tgggtggcgcc 420

cgccat 426

<210> 17640

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A3

<400> 17640

acgatcctgc tgtcggcagt aatggcggca cagtgcgcat gagcttgccg gttgctgggc 60

gtttaaaggt tcaactcagcc acgttatcaa tgggtgccac attggctcgt accaatcagt 120

ttcaatgtct cgtctactaa gctcagtcaa ggtgtttttc atacctgcgg cacataaact 180

tcatttgttt cgggatctga tcttgggtgct agacaccgac ctctaaacgc tggggggtac 240

c 241

<210> 17641

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A4

<400> 17641

accacgcgtc cggccggtct cttgctctga tagcttgccg caggacgtac gtacgtacgt 60
agatcgatcc atogatcgct agctagctga cgaccatggc gtccctctcc tctggcgcca 120
tcaccgcccc ttcttcacg ggcgcgcccg ctgcgcagc gtgcagcaag gggtccttca 180
ccgtgcgtgc ctctctccgc aaggccactg ccaccgccgc cgtggccgtt gccgccagcg 240
tctgcttgcc cggcgggcgc gccatggccc aggaggtgct gctgggcgca ggcgacggcg 300
ggctcgtctt cgagcccagc cagttcacgc tcaaggccgg cgacaccagc agccttcaag 360
aacagcgccg 370

<210> 17642

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A6

<400> 17642

aggacgcgtg ggccggcgat cgcgaccgag ttctgctgc tcatggtggc gctggacaag 60
ctctacttca cgccgctagg caagttcatg gatgagcggg acgccaagat ccgcggtgag 120
ctcggcgatg tcaagggcgc ctccgaggag gtgaagcagc tggaggacca ggcggcggcc 180
atcatgaagg cggcgcgccg cgagatcgcg gggcgctta acaagatgaa gaaggagacc 240
accgcgagc tggaggccaa gctggacgag ggacgcagcc gtgtggaggc cgagctcgta 300
gaggcgctcg ccaacctcga ggcgcagaag gaggaggctg tcaaggcgct cgacgcccag 360
atcgctcgc tcagtgatga gatcgtcaag aaggtgctcc catccgctg atgaaaccaa 420
accggccctg ccttat 436

<210> 17643

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A7

<400> 17643

agcatattgg cggtggcatc accgtcggca ttgtgcccac taccatgccg ccgctgcccg 60
 cgcccgacga tttactcatt ctcgagttca tcgogagcaa ccgccgtatc cccacgcgcg 120
 tgttcaactc cttcacgccc tcccaatccc caccctccgc cttctccgc acctcacagc 180
 gcctccgaaa agccctagtg ctccgcgccc tcgacgcgcg cctctacacc gtggggcgct 240
 cctgctcctc cagcctcctc ctccacaagg cgcgaaaggt cctcgccgac ccgacgcgag 300
 ccgctgctt cccccaccag attcctttta caagaa 336

<210> 17644

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A8

<400> 17644

acaagcctct atagtgcgt cgtattaaga caattgctcg cttcgcgct tgtgcttctt 60
 cgaccacgtt ctcgatgatt tgacaaccaa tcccccttc tttcttcga ccgcatttgc 120
 cggtagctct tgcacccgca tatttttttt cccagacca tgctgcacat gcatggatgg 180
 tgagcgagaa gactagatac aatactgtat gagccactcg gtctcaaagt gggccccctgc 240
 ctagctttcc tctgtaaac agagctaata agttctggcg ttctgccctg tatctacttg 300
 ctgttcttaa catttttagtg gccagttaa acaatcttta tggatccaac tgctgaagga 360
 ttctttgtac ctgtagtcat gtatagttca acaagggg 398

<210> 17645

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A9

<400> 17645

tcacgggtcg acgcacgcct ctgaatcgac acctgtgacg tcgctgtcgc tcaagcgccc 60
 gcgcacgcgc cggaagcggc ccagccagac gtacaacgag gcggcggcac tgctcgcgct 120
 catgtacccc tccgtcttcc ccgtcgccag gggcgggcgc gcgcgcgcgc gcctcctcgg 180
 cctcgcttcc gcgctcgccg acgactcgct ctgctccgac ctctcgcgc cgttcccagt 240

ccccggcggc cagccgcct tctcctccg cgacctgacg ccgcggatcc ccgccgcca 300
aagcctgccg tcgcccgtg ccgtcagcag cgtcttcagc gagttccgcg acccggcgcc 360
gtctcctggg acccctgacg acgctgcggc ggcgcctgac gagcg 405

<210> 17646
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-013-Q1-E1-B1
<400> 17646

gggtcgaggc cgcgtccgcg tacacgtagt ggactgagct tgtgcgacac cgcccgactg 60
taggtcaaga caacgagccc caaaaagtac tgtgttcggc caaacaacgg catggtggcg 120
ccccgtcca aagctgacgt tgttgtcaca atgcaagcgc agcgggacgc gccaccggac 180
atgcattgca aggacaaatt ccttgtgcag agcgccatcg tggccaagga gaccatgccg 240
aaggaagtca ctggagacat gtttaccaaa gattcaggca atatagtga tgaagtgaag 300
ttgaaggtag tttatacagc gccatcgctc tctcaaagcg agggatttga ggatggtaat 360
ctcggcagtt tgagttatca agaggaaaca aaagaacca aagaatcagg aaaaataatc 420
tctg 424

<210> 17647
<211> 165
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-013-Q1-E1-B10
<400> 17647

ggaggctttt gccgacgcgg atttgcttg agccagccaa gcagagcgca gaattggggg 60
tgtttggccg tgcaaagcca gaaagttctc ggtttggtg ccgaaaccgc ttgaagcgac 120
caccatctca tgggcctaata ggtccgggtt cggcacaagt agggg 165

<210> 17648
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-B2

<400> 17648

gcagaatcag caaataccca taaagggaaa cctcgccaaa attagaacag aaaccaaagt 60
tatccctgat cttatTTTTc agattgagga ttatgagaag tatttaatac agctaagcaa 120
actaactaag gtaaaccTTT tgaggcatgc caaacgcagt gtagcaagag acttccagat 180
aaaagâtaaa tctgggggac aaçaggaaga tgatcacatt ccagacaatg ctgcagcatc 240
tgataacgag gctgataagg acgcaatggg tccaaacgca ccagttgaat catgtgctga 300
cgatgctcaa aaatcatacg ctgacgaaaa tgcattcatgt gaaaatgggc atgatg 356

<210> 17649

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-B4

<400> 17649

accaaacgtc cgcccacgcg tctgcggacg cgtggggagc gcatgatgag ctgactgctg 60
tgaatatTTT accttctgcg tctgggacac aacaacaaca tcgtcgacaa gcaagattat 120
gccttgTTTT gtagtattcc tcatgagtcg ctttgTTTTag gaccaatcta gtagctggtg 180
ttgaacagca gcacattaca gaacatatga tcgtcgagtg accttcatac acgcgtgtaa 240
ctctcgctct ctctctcgct ctcagc 266

<210> 17650

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-B7

<400> 17650

aacacgcgtc cgcagcagac cagatcatcg oggtgcatgt gcgaccaatc tttgagcaag 60
tctacagcca attggccac caacggacac tccccaccac gaccgcatca gatggcacca 120
gatatccgtgt gatcatgcat gtaattaact cggttctgct tagctacaag tgattgcagc 180
tatgcaactg tgggaagtat ggcctatTTT atatcttgta tagagaaatt ttgaatggca 240

aatagagcac aaccacgag agtatacttg gaagaggggtg gaggttactc tctagtgtaa 300
 attttgcctt tgaaattaa atatttgtag taattgggca t 341

<210> 17651
 <211> 124
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-B9

<400> 17651

tggcgcgcgc tgctccctg cgttcttccc tgcaactttc aagcttcccg cgcgcgcct 60
 cctgctccct ggtcgtcgcg ccatgccggt cggagctcgc tcggtgcag tctccttctc 120
 cctc 124

<210> 17652
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-C11

<400> 17652

cgtccgagct ccacaacgaa gtgcgagcga cccacgtcca cagcacga accagcacca 60
 ccagccagca gccgcaccac gcaccagcg caaagcgatg gcgtcgtca ccatgatggc 120
 gtccttcgcc gccgtggcgg tggccgcgcc ctgcgcgcgc ggcaccttcg cagtggtca 180
 ggtccgcaa ggtcgaccgc tggcaggagc ccgccacgct agcagcaacc gaggccaggc 240
 ccgccgccga cggacgccgc gccgtcatgc tcgcgggtgc tgccgcgggc gtggcaacca 300
 tctgcggggc cggcgccgcc atgggggggc ccaagaacgg gacgcccgag 350

<210> 17653
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-C12

<400> 17653

acggtacagc ggaacagagg tgcgacgtac tacgacgacg acgcacgcgc cacacatggc 60

atcgcagctc tccgcgcgcg tgccccggtt ccacggcctc cggggctacg ccgcgcccag 120
gtccgcggtg gcagcgctgc cgtccgtgag ggtgggcagg aagacgtcgt cgtcgcaggg 180
catccgctgg caacacatcg gctctgccac caacctgata atggtgatca cgaccacgt 240
gatgccgttc gcggggcggt tcgggctggc gccgtccgcg aaccgcaacg ccacggcggg 300
gcctaaacct ggaggcgc 318

<210> 17654
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-C2

<400> 17654

gaggcgggtca acaccgcctg tcatgcaatc aaccgtctct atcttcataa gatctacaga 60
aagactgctt atgagcttct cactggaaat taagaactac cttgtgaagc cataaagaaa 120
cttgcaatag gtgaagtgag acctcaagaa aaggatgatg aggaaggaac tttctggatg 180
accaataagg ttgttgatgt aggtgcaaag gtggtgagtg acaaagtctc cacccaagca 240
aaccatcaa cctcaagtca tccaagccat gaagaaaatc atcaaaggat gccaacagtg 300
gtagaagatg aacacaaaag cattgacggt gaagtgtctc ttgatcaagt gaattatgac 360
gaggagcaaa tccaaagaca accataagtg cctcatccaa g 401

<210> 17655
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-C4

<400> 17655

acgtggcgtc cggccggtct cttgcacaga taccttgatc tacgacgtac gtacgtatgt 60
atcatgatta ttcgatcgcc aacgtcctga cgacgatgga gtctctctcg tctggggcca 120
tcaactggacc ttcttcaag gtagcgcccg cacgcacact ggacaactgg aggtcattca 180
tcatgagtgt gtctcgacga aaggccactg gtagagcgac cttggac 227

<210> 17656

<211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-C5

 <400> 17656

 aggacgcgtg ggcggacgcg tgggcggacg cgtgggtttt tttttttttt tttttttttt 60
 tacggtcgca tacaaccacg gtcttaagct tcgtctgcac caacgcacgc atagatcgat 120
 cgaactcacg ggtcaggctg aacaaaaata -cagtcgtagc taggaataat cgacggatga 180
 gttcagagcg agaggccgga gtctgtctcc tcgtcgagcg tggagggtga gacgggtgag 240
 agggaccaga tgaggccgaa gacgccacgc aggatccacc ccagcagggt gttgctgagc 300
 cccaggctga gcccggtgcc ctccgtcgac atccgctcgt ccaccagcgc cagcgcgggc 360
 gacgtggtca ccgcgctggt ggccacggcc agaagctaac aacaagcgcc gttgttgccg 420
 tcccgcc 427

<210> 17657
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-C6

 <400> 17657

 caacaatcca gatccataca ccccgcttgt gatgagcatt tcacgtcagt atctgactga 60
 tagagctaaa catgatgaaa cagcagctga gtggacaatg agatttgcaa gatagaggat 120
 tctgtttgca tctaagcacg attgaccttg taaaaaaatc ttaatgtggc ctgacgcctg 180
 aaatggtgaa tgttggcaaa ggagccatca gccatgtatt atttgatgtg agttgtgaca 240
 taaagggtga ctttatgctt gagtgttctt taatcgctgc ttttaggtgg agaatt 295

<210> 17658
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-C7

 <400> 17658

accacgcgtc cggcctcaag ctgggattgg cccgtcggca gaacaagtgc acgcgggacc 60
 gggcaacatt tcccgtgca gccacaagc agagggggcg acgatatata gccacgggcg 120
 gccgttgctg gatccggcat ctctctcgat cggcaagacg ataggatggg gttccacctg 180
 ctggcgttcg tggcggcgag gggcctcatg caggcggtca acctgtcggc gccgtcagc 240
 ctccggctgc cgctcgcgcg ccacctgccg gaggcctcgc cgtcctgta cggcggtgctc 300
 gccgcgcaag ccgcgtggct caacggcgcc ctggcgcgcg gcgccgcctg gagccacagc 360
 gggagccggg gggcgctcca cgagtacgtc cggcacgcca tgctcagcgt ctacgactga 420
 gaccaacggc g 431

<210> 17659

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-C8

<400> 17659

cagcccttgt tcatcaacaa accacatggc cgcgctcggc cctgcttctg ttacctccac 60
 gggcttggcg ctgcacaccc ctgcgattcc tcatcgtcgg cgtcgccacg ggaatgcagt 120
 ggcctgtgcg tcgtcgtcgc cgtcgtcgtc tcaacaccag cgaagcctta atggcttggc 180
 gatgagttct tcaggcacga acaatgcctt gcccatcaaa ggaactacca ctacacgggt 240
 tcctgcagtc ggtcgttcgg cccctgcgaa tccgtcgccg tcaggaggga acaagctccc 300
 agtgcccagg attcctctgt gggtaagtg ggtggctggc gccgtcatat ttgcagtgcc 360
 catgtccagg aggttcaga 379

<210> 17660

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-D10

<400> 17660

acgcatattg atggccagta tgctgtatth gggaagggtca ctaaagggtga cgatacattg 60
 agtaagctag agaggcttcc aaccgcgaga gaaggcattt ttgtaatgcc gatcgagcgt 120

atcaacatcc tatcaactta ctattatgat attgatctag agagctgtga agcagaaaaa 180
tctattctcc ggaggagact ttctgaatca gcatcagaag ttgagcgatg gagaagaaaa 240
tgctttgcgt aatggcggaa taacgactgc atattccgtt tcctgaggct ggatatggac 300
gacggtgtgg aaatgtgtat gcccggttc ttatcctatc actgtaatac ttgagtagat 360
gtagatggg t 371

<210> 17661
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-D11

<400> 17661

aggacgagtg ggcggacgcg tgggatctat tcctggtttg attatagact cgaaactgtg 60
tggtcatctt taagtgatgc agtggtactg ttttagcagt aaccttacga ctaatgggga 120
gctattattg tttcattccc atcgctgtct tcagaattca catcgctgtg gcttgctgt 180
ctggttgctg gccgcgtggt tccctgg 207

<210> 17662
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-D4

<400> 17662

aaatcaatgg gaagacagct ctgattgctc atttccagaa ctctagtttg atgaatgagg 60
acaaacgttg ccgccccata ctcttccact cagatgggtcc taatgcatga gatcaggaac 120
ctttccctat gggatcaaac atccgagcca ggtctgggag atcgcggtact tcctctggtg 180
aagaaaatca ccatgatatc cagacagtct tgaccaacgg tgacacttct tccaatggag 240
ctgagacttc aggtcccacc atggacactg agtagctgaa ctgcagcttg ttgcgttgct 300
gaccacaaag ggccaaacta taactttttg caaa 334

<210> 17663
<211> 415
<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-D5

<400> 17663

gagcacctgc tccttggact gcttcgtgag ggtgaacgtg tggcggctcg tgtgcttgag 60
agtctcggag ctgaccccag caatatccgt acacaagtta ttcgaatgat tggtagagacc 120
acagaagctg ttggtgctgg atttggcggc ggcagcagtg gtaataagat gccaaçtctt 180
gacgagtatg gaactaattt aacaggatta gcagaggagg gaaaattaga tcctgttggt 240
ggaaggcagc cacaaattga gcgtgtggtg caaatTTTtac gcagacgaac caagaacaat 300
ccctgcctga ttggagagcc tgctgttgga aaaactgcaa ttgctgaagg acttgctcag 360
cgcatTTtcta caggcgatgt acctgaaaca atagaaggga agaaggTcat aaccc 415

<210> 17664

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-D6

<400> 17664

gtgagaacaa tcatatatat attgttgctt aaagagaaga gaagatcgac aagagattgg 60
cggtaatgga ctctcggag ctgcacatac tggccttgca gaggggtgaag caggtggagc 120
cggagaacgc gagcaagatc ctcggtgca tcctcctgga ggaacccgac aaccaggata 180
tgctgcagct cgçctacggc aacgacgccg aggtgcacgc caagatcagc cagçccaagg 240
ccatgctgga cgccatcgtc gcgtgctgct cctcctcgcc ggçcttcggc taccactact 300
ggccgçcgggt gcccaataag gçgcaggcag aggagtacgc gttgcagccg cagcactaca 360
gtggcggagg gtgctactac gçctctgaga acgçgçtcat ctacaatggc ggggggçcgc 420
cgaggt 426

<210> 17665

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-D7

<400> 17665

cttttgcacc acaaggtcga ggatgtcttg caactgcgga tcaagctgcg gctgcggctc 60
aagctgcaag tgcggcaaga agtaccctga cctggaggag acgagcaccg ccgcgcaggc 120
caccgtcgtc ctccggcgtg ccccgagaaa gaaggccgag cccgagttcg tgcaggccgc 180
ggcggagtcg ggcgaggccg cccacggctg cagctgcggt ggcaactgca agtgcgaccc 240
ctgcaactgc tgatcacatc gatcgacgac catggatatg attattatct atctagcttg 300
tggtgggtgt tgaacaataa taagcgaggc cgagctggct gccatacata ggtattgtgt 360
ggtgtgtgtg agagagagag aaacagagtt cttcagtttg ctatctctct ctgcatgttt 420
ggcgtcag 428

<210> 17666

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E1

<400> 17666

ggtggaggca aacctacatg ggaggctgct tggcgagctg cttttgaaag atttcagtat 60
aaaaaatcac ctcatatcag tttagagact cccacaagtt cacttatagg tagttctgtg 120
cctgagaaaag ctagcaaagg tacagcaatt acaactgtgc cagctagcaa aaaagttggt 180
aaaactgtgg cgccagcaca tcctgctgta accctacact ctccaacttc tgattttcct 240
tttggtagtt ctacatttaa tctgcaacga ggcactcatc tggattttag ccaggcagta 300
tcagcatttg cgtataattc acacatgaga catccgtctc ctggtgttgc cccttggtg 359

<210> 17667

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E11

<400> 17667

agccctacgt caggtgcccc attctccatt ttcgggccct tctccagcga cgagcaccgc 60
ccagaggatt atggattggc tggggcagaa acgcggggag atgctgatgc aggtgctgct 120

ggtggcgtct gcggtggtgg cgttcctggt gggctacgtg cgcgcggaact tccagctcat 180
 gctgctcgtc tacgccggcg gcgtcgtgct caccggtctg gtcaccgtcc ccaactggcc 240
 tttctacaac cgtaacccgc tcaagtggct cgacgctgcc gaagccgagc gccacccgcg 300
 gccccaggtc agccccgccc ccgcggcatg gggtaagaag aggtccggga agaacaagta 360
 gttgggcgat gtgtgtg 377

<210> 17668
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E2

<400> 17668

gcccgggagg ttacttcgct gcctgaggag tccccggcac cggaggctct gctaccggct 60
 ggcggcttct tcttcggtc ctcccaagt cctcttccg gaggaatcat gatcgtctgc 120
 gtcgccgttg tcggccacca gaacaatccg ctgtacctgc agagcttcac cgaggcggac 180
 gacgccctca agctccacca catcgtccac tgcctctctg acgtcatcga cgagcgagtg 240
 agcaatccta agaggagtgc acctacattg aatgagacat ttttgggtct tctataccca 300
 actgagaact acaaagtgtg tggctatttg acaaacaaa aggtcacatt tatcatgggc 360
 acgacggatc ctgatgtcaa agatgcagaa tgccgaaatt tt 402

<210> 17669
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E3

<400> 17669

agctcatctg gtcttccctc cagccctcga cgggtggcat ggccgcccgc gccgccactt 60
 tcggcttcct ccatactcca atccggaaac ctgcagtccc accactgtac attctccggc 120
 ttcccaccaa accccactcc aaaacgcacc ctggttctcc cccctctctc ttctctctcc 180
 tgggccgcgc ccggggaggc cccatcgccg ccttcccaa caccacatct tcatccagca 240
 atgcccctgc ctgcccacc tacgacgtcc gggaggcata ggccgccgtc gcggatctcc 300

tccgcgaggg cggcgccctcc gcggacgacg ccgcctccat cgccgcgcgc gcgccggtct 360

<210> 17670
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E4

<400> 17670

atctgacccg cttttctcca tctccacttg gtcctctctc cgcattggcgg cggcggcatc 60
ggcgtcgacg ccgcaggggg tggcggagcg gcggggcatc ccggcggcgg ccttcgtcga 120
ggacgtcgag gcctacctcc ggcaggccgg gctcgacgtt aactccgcc tcgccttctt 180
ccaggaaagg ttgcaacagt aaaaaatact ggagatgaag cttctagcac aacaacgaga 240
ccttcaggca aagattcctg atatagagaa gtgtttggat attgtttcaa cattacaagc 300
taaaaaggat ttgggtgagg cacttataac tgattttgaa ttatccgagg ggatatactc 360
ctgttggaat atcgaggata ct 382

<210> 17671
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E5

<400> 17671

atccacgcaa tcgtggggag ctctagctat ctaatgtcaa tgatctcatg tatacatata 60
catgccccac gaaatcgttg ttagatttgg tggggactac agaggtttgg atgggggttaa 120
atcactaaca agtcaaaatc ttcttc 146

<210> 17672
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E6

<400> 17672

atcgcttga cgtccaagag ccccggtccg atgggtcgtc cgccgagcgc cgggtgctccg 60

gcgttccgct tcctcccgtc cgaggtggcg gagatggagg cgcgccctgct gcagctcaac 120
aacggcatcc ccaccgcgc cgtgctgcag accctcgcgg ataagttctc cgcttcgccc 180
gagcgcgctg gcaaggtggc catccagccc aagcacgtgt ggaactggtt tcagaacaga 240
cggctactcac accggggccaa aactcccagg gccgcgtcgt caccgccggc taagatgaçg 300
ccctcgggag ctgatcacca gcagcatgcc gctaacgcct ccgccttcag ggctgctcag 360
ctctcttcgg t 371

<210> 17673

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E7

<400> 17673

agacgtcca gcagtccagc actcggagct cgcgcgcccg acggcccacc atgatcatcc 60
ccaagaagaa ccgcaatgag atctgcaagt acctcttcaa ggagggcgtg ctgtatgcca 120
agaaggacta caacctggcg aagcaccac agattgatgt gccaacctc caggtgatca 180
agctcatgca gagcttcaag tccaaggagt atgtcagaga gaccttctcc tggcagtact 240
actactggta cctcaccaac gatggcattg agcacctacg caactacctg aacctcccg 300
ctgagatcgt gcctgccacg ctcaagaagt ctgccaggcc actggggcgt ccatttggct 360
ctggccctcc tggtgaccgc ccaacggggc ctggtcgttt tgaagacaga ccaaggtttg 420

<210> 17674

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E8

<400> 17674

atgccccagc cgaacctgct atcaggacag ctgcgggccc ggctgcgcca cccaaggaca 60
cagaaaggca gctgtctaaa aaggagttga aaaagaagga actagcagaa cttgatgcag 120
tattggctga gctgggactc tctgcaaatt ctagcagcac tgcacaggat gctgagaaga 180
aaggtaccaa ccaaattggt gatgcagaga aaaaggaaga tgctcctgct cctcccgaga 240

gcaaggcctc caagaagaag aaaaagaagg acaagagttc aaaggagggg aaagaaacac 300
aagaagcact tgatgggtca gaggagactg ccagtgcagg acctgatgaa gatacttctg 360
ctgtggatgt gaaggagcgc ttgaagaaga t 391

<210> 17675

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F1

<400> 17675

cccacgcgtc cggaatatat ttgatctctc tcgatctgat ctgagctgag ccggctggtg 60
gcccggaag gacgaagtgt gtcgccacct ataatttgat gatgtttgtg tcatcatgat 120
cggtggttag cagaataaga gatgataagc ggcaacctca acaatgaaga gctggggggc 180
ggcgggtgca ccaaggccga ggggccgggc gcggccggcg gcgccggcgc cgtcgtcgca 240
aagagtcccg tgctgtcgag ctcccggcac tggccggcgt cgacggagtc gaggatcgtg 300
cgcgtgtcgc ggggtcttcgg cggcaaggac cggcacagca aggtgaggac ggtcaagggg 360
ctgcgcg 367

<210> 17676

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F10

<400> 17676

agagcttcca ccgtctccct ccgcttcccc gtgaggcggt gccgggtcgc gccgtgccat 60
ggcgccccgc ttctcgggtc cgtgcgcgcc cggatcctcg cggccgctgg ccgccagccc 120
cggccccagc gtcgtcgtcg tcgcctcctc ccaacttccc gcgtcgtcgc ggagcagcga 180
acgcaggaga gcaccaggcc tcgcgtcgc cgcgggtcccg ggtgtcggcg gtagggatgg 240
cgggtggcagg tggagagcag gcctctcgtc cttccccttc ctgccgccgt tcttcacagg 300
gaagaagggg gagaaggacg ctgagaatgc gatgaggctc 340

<210> 17677

<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F11

<400> 17677

attccggtct ggccttgttg gtttcacgct tcatgggtca ctttcacatt actactacca 60
tatatgcgag gcaactgttcc cattcaagga ttggtgggtt gtccctgcaa aggttgcatt 120
cgatcagacc atctgggtctg cgatctggaa cagtatctac tttgtggtct tgggtttcct 180
tcggttgga tcaacctacca ctatctacaa cgagctcaag tccacattct ggcccatgct 240
taccgctgga tgggaagtgt ggccttttgc gcacttagtt acatatggtg tgggtcctgt 300
tgagcaaaga cttctatggg tcaactgtgt ggagcttgtc tgggtcacaa aactgtccac 360
ttattcaaac gaaa 374

<210> 17678
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F2

<400> 17678

gacaaacggc cgaaatgtcg tacgtgtgat gccaatgctg aaagccatta agcaactgaa 60
cgttcatgat gtgccatcca tattaccagt tgttcttaaa agatttcagt catgaaaaca 120
ttgcaagatc atcatatgtg ttactttccc tgatatcttg gtcatggatc catttgtgac 180
taagtctggt gagaagcccc atcttaaggt catgtacgtc gtggctgtac atgtggtcac 240
aaaaaatgta tcattctctg ggcaactagat atcatatgtc aaaaatacac acggtacaag 300
gttgggaatt gaggagtcaa aggtccatgc agttccagtg aaacatctta tgtcagaagg 360
tgcatagatg cctttc 376

<210> 17679
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F3

<400> 17679

ttttaatttt gcatgcacac gttttaattt tagtctaata agtgtatata tatatataat 60
taaattgata coggactgtc cagacgcagc aacggtttct ttctttcttt cctttccgaa 120
agccacagat accaacttgg atggcatgct acgtgtgcaa gcaacggatc agtcacccat 180
ggaagcaaac atttattcca agtcgctgta ctaaataag tcttcatttc tgaatcaata 240
gggcggcaag ctccctcttc tcagccatgg acgaaaccaa ttccaagct cccaagaagt 300
ccctccgaa gaagaactta gggaaactcc ggcaac 336

<210> 17680

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F4

<400> 17680

atcgaatctg tcggatatgt atcggaagcc agttttggag aaatctgctg acacatctga 60
tgaggagcct gacattgata tcataagct gctgaaagat gttgagatca ttggtgcccc 120
tacatttaag gggcgaaagc aaatcgagaa ccgcagagta gttgagttgg gtggaaagtc 180
cgtaagaag caccgcacac cattaagtgt tgcgaagcca gctctgaaga atcagaagaa 240
acgagaacag aagaaaatgg aagaggaaaa actacttggg atcttttagga agagggacaa 300
ggacacaaa cctcacaaga caaggccaga ggaccgaatg cttacggcca cagaatggcg 360
ctttaggaac ggtatactga acgtcaagca tcttctggcg ccaccgaaac catc 414

<210> 17681

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F5

<400> 17681

agaagaagtt ggatggacat tgtacacaga tcaatgagtc atcagcagca tatggcagtg 60
atgaagaaga ggaagaataa cctgatgtcc gtcctaattc agggagtgat gaggacctaa 120
gtgaagaaga caccatggag atcgatgagg agatggaagg gtctgtggcc gaggactgca 180

acatgtctga tgacgaatat gacgacctgg gcatgcggga cagtttggat aaccgctatt 240
tatctgatga tggcgttttc tgttctgggt taaccaactc gtcaatcggc aatttctttg 300
gtggcaa 307

<210> 17682
<211> 297
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-013-Q1-E1-F6
<400> 17682

acgactcgta ggggaatata gacagagccc tgtccaatac catcttggac agaccagctc 60
agtatcagac ttccagcttc gtgacatcat tccatcgcgc aacgtgatat ctccgtcggt 120
cggtaaagga gctcttaata tcgatgctgt gtacagtact acagtcgaca ccgatgtgac 180
tggacacatt aggacctga actcgatcat ccccatgtta tcgattgcac agttgatttg 240
agtacgatgc cacatgtgca tgataaccta gatgatcaca tgacgacaca tccacat 297

<210> 17683
<211> 389
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-013-Q1-E1-F9
<400> 17683

agacggcaag aacgagcacc agttctacct gtggttcgac ccggccgccg acttccacac 60
ctacaccatc atctggaatc acaagaacgt catcttcaaa gtggacgacc tcttcgtgog 120
gtgcttcaag cggtaaccgg acctggcgta cccgggcccgg aagcccatgt ctgtgcacac 180
cacgtgtgg gacggcagct actgggccac gcagcacggg aaagtgaacg tggactggtc 240
cgccgcgccc ttgcgcgtct cctaccgcgg ctactccgcc gacgcctgcg tgcccagaccg 300
cgacggccgc ccgctctcct gccccgccgg caccgaaccg ctggatgagc cgccagctcg 360
aaccgcccga gtgggtgcacc gtcgcctgg 389

<210> 17684
<211> 284
<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G10

<400> 17684

atctccaact ctcaagtggaa acactcgagt cactcatcaa gctaacgaag gaaggtacca 60
gttcagacaa gtatgaacat gaaggttcca cgtctgcgtt tgggggaagg ggtaaccggg 120
ctgatgcttc cgtactgcca gaggttgaag ggcccttaca ggttggtctg ttcgaaggat 180
ggatgcctgg atttaaacct cttccgcacc aagttgtgaa acaagtggat ccacacctgg 240
aggtgggttaa ccacgaacct tgaggcacac tctgatgctt ggga 284

<210> 17685

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G11

<400> 17685

aagtagatgg aagcaggcgg cggcagagga agcgtccacg gccacgaccg gcagcagcag 60
cagacagcac aggggtgagga tccgccgatc tgaccagtta caaggcgcgc gcgagccggg 120
agctctggag ggcattggcca tgggaaagga gccggtcgaa gaggaagagg aagaggtggc 180
gtgccactgc tgcgggttca cggaggagtg cacggcgccg tacatcgcg gcgtgcgcgc 240
gcggtatggc gggcgggtga tctgcgggct gtgcggggac gcgactggcg aggagctcgg 300
gcgcacgtcc ccgccatct ccgccaccga ggcgctggac cagcacgccc gcgtctgtcg 360
cggggcctcc agccgccggc gtcacccccg ggc 393

<210> 17686

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G12

<400> 17686

aggacgcgtg gggcgactac ggctgggaca ccgcggggct gtcggcggac ccggagacgt 60
tcgccaagaa ccgggagctg gaggtgatcc actcccgtg ggccatgctg ggcgcgctcg 120

gctgctctt cccggagctg ctgccccga acggcgctcaa gtteggcgag gccgtgtggt 180
tcaaggccgg ctcccagatc ttcagcgagg gtggactgga ctacctcggg aaccogagcc 240
tcatccacgc gcagagcatc ctgccatct gggcctgcc agtcgtgcc atgggcgcgg 300
t 301

<210> 17687

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G2

<400> 17687

gggtcgagtc cgcgtccgcc cacacgtccg cccacgcgtc cgtagatctg cagcaaeecc 60
tcccagaacc tctgactttg cttcgcatcg cttcgtttcc aagaggagaa tgtttctctc 120
ccttgcccag tcgctgcct gcgcgctcgt ctcttccca tggaggtcct cgtcgcaact 180
catccacagg gtctctcgc gctgcacct cgcctgccac gcagcggcgc ccaaagtgc 240
tctccccatc gctcgcgg cgctactcgg ggaagacct agcaagtggg accccgcga 300
gtgcgacgct ctctccgcg ggggggagca agtcgctcc gtgctgcagg agatggtcac 360
gctgatggat gacatg 376

<210> 17688

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G3

<400> 17688

agcaaaaaag ctgacagaga gtaaatcaat gcaatcgatg tgtgaaacct atgcagctgt 60
gtcatatatt tgtaagggtg atgcagagtc gtcttcacag gcactagaac tggttggtcc 120
tgcctatata acaatggact catttggttg tgtgcgagag aaaacctgta tcatttttgt 180
ttatggacta ttacttatga gacagcataa tccgcaggaa gcacggaacc gccttgcaag 240
tggtttgaaa atagcgcacc aacagttggg taacatccag ttagtttctc agtatttgac 300
aatactgggc acattggcgc ttcagctaca tgacgcagca caggctaaag agatcctgaa 360

gtcctcgttg aacttagcta agaccctaatt ttatatcca acccaaatct gg 412

<210> 17689

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G4

<400> 17689

atcaaaattg ttccccaaaa aagatgtagt gaacacattg aagaagatgt ttatagggca 60

agcagtctat ggaccaatta ttaactcagt tttcttctca tacaatgcac gattacaacg 120

cgacactgtt gctgagatta ttgcaagatt gaagagggat ctaattccca ccatcaaaag 180

cgggcttcta tactggccaa cttgtgattt cattactttc aagtttggtc cagttcattt 240

acagccgcta gtgagcaatt cattctcatt tctgtggacc atctacataa catatatggc 300

cagcttaaag aaatcagatg tggacgtgga cccagttacc taagtgttgt cgagtgactc 360

aacatggct 369

<210> 17690

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G5

<400> 17690

atagttctag atcgcgagcg ggcgcccttt tttttttttt gttttttttt tttttttttt 60

tttttttttt ttttttgttt tttttttccc ggcagaaacc aggtttcagg ctttttttaa 120

tataataaccg ggggaacagt ttttcccttt ccgaccaagt ttaacaatac agtagagatg 180

gacgacaatg acattgcatt cgcgttttcc tttgaccaca cgagatacta ggctaggaga 240

cgacctgcaa taggtgacaa cggaactgaa 270

<210> 17691

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G6

<400> 17691

accacgcgtc cgcccacgcg tccgggttat gtatgtctgg ttataaccaa ccattgcac 60
actatttttc atttttaata ttgggtgttac gat 93

<210> 17692

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G7

<400> 17692

accacgcgtc cggcatttcc cttccccgc accgcaccgc acccaacccc cgtcggagag 60
agagatggca tcgggtggcg agatgcagcc cctcgcgcgc gcgggggtacc gccgcgcgcc 120
ggagatgaag gagaaggtgg aggcgtcggg ggtggacctg gaggccggga ccggggagac 180
gctgtaccgc gggatctcgc gcggggagag cgccctccga tggggcttcg tccgcaaggt 240
ctacggcatc ctcgctgcgc agctgtcct caccagcgcc gtctccggcc tcaccgttct 300
ccacccacc ctcaacgcca ggctctccga atccccgggc cttccgctcg tgcctccgcg 360
ttcctgc 367

<210> 17693

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G8

<400> 17693

catgaacca aatttcgaag acatgagctg cgagatgata tacggccagg tgccgcctcc 60
gttgaagag gacccggcgt cgaagcaagc ttgtacctg agcctctgtt ccatgtcgac 120
gccgtctgcc ccggcctgtc ccaagcttca gtaggagtag gtccatacat gcatgtgcag 180
agtttgcccg tcggactggg atggaagaag tatcactagt atttttttaa tacagaaacg 240
tagcttgtaa acgattagta aagttacata caaggttttg ttctgagcca gtacagacca 300
ctctgtaata aagaatacgt ttctcagacc tttgggtatga gagggtaaa cgacgcc 357

<210> 17694

<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-H1

<400> 17694

cccacgcgtc cgcccacgcg tccgtcgacg aacaactgag aagagctgcg cctgcgcctg 60
cgcttgcggg aaaggagaa catggtggg aagaagagg gtgttatctc cccgctggac 120
catctcgctg ggctgctgga ggtgcgcgtg gtgaggggag tggacctcgc catccgcgac 180
ctccgatcca gcgacccta cgtcgtcctt cgcacggca aggcgcagaa agtgaagacg 240
cgagtgggtca agaagagcat caatccggaa tggaacgaaa aactcacct ctctattgaa 300
gaccctgccg ttctattag actggaagta ttgacaagg acactttcgt tgatgatgca 360
atgggtaacg cggagctgga catccgccg ttagt 395

<210> 17695
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-H10

<400> 17695

ccttcaatga aatgaggagc ccattagcg gcaggggggt tgctgttccc tcagctctct 60
cagcattcac cgggtgcaggt gctgaagaac ttctcccatg ttcgcaatct tcaggtagag 120
ctcccctccg gagatgttgc agtcgaggag ggggttctgc tgaagtggcg ggctgaatat 180
ggcagcacac ttcagagctg cgtgatcctg ggtggaacct tggttgatcg caaggccgct 240
ggcagtgggc atgagccatc accgggtgac aagggaagca tgccagaatc tttctatacc 300
aatggtgggc tgaaactccg tgcgtatgg act 333

<210> 17696
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-H11

<400> 17696

agtggcacc acgcatactc ttctcgcccc cagtccggac cccggaggag ccaagccatg 60
 gtgtccacct cctgtctgct cctccaccat tcaaccgccc gcctcggcgc gtcgccgcgc 120
 ctggccgcgc ccccgccgcg cagcgcccag ctgctcgtct gcaagggtccg gaagcaggaa 180
 gccgccgcgc cccagaacga cgtctcgcgc cgcgccgcgc tcgcgctcct cgccggcgtc 240
 ac 242

<210> 17697
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-013-Q1-E1-H3
 <400> 17697

gctatttaag caagcatata aatcttcagt agacgctagt gagtatctag atcgctacca 60
 gatgtacaag cttcttaagg gtccgtatga caaggaggga gcgtgcatta ttgttactgc 120
 agtatctaac ggtgttactt ctgagctgtg ggcagagaag gtctttggca tgtatacaag 180
 ttgggcacgc aagcaacgtt acaagggttg attgattgag aagatatttt caactagtgg 240
 ccatatccaa tctgcaacaa tggagattga atcagagtac atgttcggca ccctttctgg 300
 agaaaaagg atgcatcaaa tgatatactc ctccattgaa aattccgaca ttgatcacgc 360
 attatcagct agagtcgaca aaattcccct gtt 393

<210> 17698
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-013-Q1-E1-H4
 <400> 17698

cgggtcaacc cacggatcaa gtgagatccg ccgcttgggc ggacgcatgg gccgaggccc 60
 atggcgccga gaacgtcaga gagagcgatg acatcggcgg ccgcggggct cgcgcgtggc 120
 gccggccgc actacagacg cgtcaggaag cggccgtggg gccggtacgc cgcggagatc 180
 cgcgacccgc ccaagaagag ccgcgtgtgg ctcggcacgt tcgacacgcc cgaggacgcc 240
 gcgcgggcct acgacgcgc cgcgcgcgag taccgggcg ccaacgcaa gaccaacttc 300

tccttccctt cgtgcctgcc gctcgccgcc gcggacgtgg ccggcggctg ccgggacggg 360
aacagcagca 370

<210> 17699
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-H5

<400> 17699

acgaggatgc tgcggctgcg ctggcgtgcc gtcctcccc cactcccact ccctccgctg 60
cctggcttgc ttgcgcgct gcctccgcac cggcgtccc tctcgctctc ttccggatct 120
atcccgttcc caccgccggt gattgaggct tctacaagt ttgggcct 169

<210> 17700
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-H6

<400> 17700

accaccatcg accttcaagt ctgcgtacgt agcagtgcaa taaaaaagc agccgcaatg 60
gcgagcagca ccatggcct ctctccacg gccttcgccg gcaaggccgt gaacgtgccg 120
tcgtcgtccg ccttcggcga ggcccgcgtg acgatgcgca agacggcggg gaaggccaag 180
ccggcggcgg cgtccgggag cccgtgttac ggccccgacc gcgtgctgta cctgggcccc 240
ctgtccggcg agccgccgag ctacctgacg ggcgagttcc cgggcgacta cggctgggac 300
accgccgggc tgttagcgga cgcggagaag ttcgccaaga accgggg 347

<210> 17701
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-H7

<400> 17701

atccggctac ctgacgggcg agttcccggg cgactacggc tgggacaccg cggggctgtc 60

ggcggacccg gagacgttcg ccaagaaccg ggagctggac gtgatccact cccgctgggc 120
catgctgggc gcgctcggtt gcgtcttccc cgagctgctc gcccgcaacg gcgtcaagtt 180
cggcgaggcc gtgtggttca aggccggctc ccagatcttc agcgaggggc ggctggacta 240
cctcggaac ccgagcctca tccacgcgca tagcatcctt gctatctggg cctgccaggt 300
cgtgctcatg ggcgcggtt agggctatcg catcgccggc ggcccgtcc ggtgatgtcg 360
tcgactccgc tctaacc 377

<210> 17702
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-H9

<400> 17702

aaagaagcag ctccacatcg agaaaggaga cgacgacttc atccccggac ggggtggtgg 60
ctacgatgac ccggacgagt acgacttcat gtgatttggc tggaaggaag agtaagtagg 120
gttaataggt ttccgtcttg tatacatttg gcaagcagag aacatatcac gagagtttgc 180
ggcatactat actatggcat ggaacatgcg ttatctgttt gaggatgaat tttgactctg 240
caggacaaga agagcacaag tgcttactta attgttattg aatctctgtg gtattttttt 300
agcatacatt gcattttcat ttattttttg tcaactgtac tgtaatactg tcgtcggat 360
gtactgtaat attgtcgccg gtaccgggcg tgaaggatg tcacaccggt gttttggggc 420
a 421

<210> 17703
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A1

<400> 17703

accacgcgtc cgcccacgcg tccgccacg cgctccgcca cgcgtccggt cgaggtaaa 60
ggtggtgaag ttgcacctta gcaagacgat tcagtccgag aagttcgaag ataggcgtag 120
ctggggcatc ttggttgaag gtcggaacgc ggtttcgatt ttggtggcca ttaacaatgt 180

atccacattc attcatggcc gtaatttaga ttggcgatgt gtggatacat ttgatgagca 240
 atacatgaaa gataagatcc gtagtttgat cacagatagg cagcgactat cacagataca 300
 caatgaagta caaagtattc ctggagatga catgaaagca ttttttgatg tgattaatag 360
 cattcgca 368

<210> 17704

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A11

<400> 17704

actaggtcaa gatcgcgagc ggaatgccctt tctttttttt atttetgatt gatgcaataa 60
 aattttaata attgtaggcc tgagcgacac gtcaagacaa gtttggagac ctggacatag 120
 aatgcatttt gagagacgag ttcacacggt taaggacgtc cgaatgatca acaaacctga 180
 caatctcaga taggccactg gaatcgggtg aaatcctttg aactaagccc tcgtatgtag 240
 ctgtcgtgta tccacacgag ctccaccatga gcaagctata caacatgcaa catcacgttt 300
 accaaacaat acttcacgaa actagttggt gca 333

<210> 17705

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A12

<400> 17705

aggaaattgc tgaagatgat gctgtccac tcgtggtcta atattcggcc attgtgctct 60
 ggaggtgttg ttcccaatcg agacatccta cgatggaatg tgacacactg ggattcacga 120
 ccttgatatc cctgaatgag ttccaaagcc agaggtctta gacatcgtgt ataacgacac 180
 attatgtttt caccgtgcta ttgaacatca tgatggcatc atgcatcaaa caggaatgta 240
 agccccagac agtgttcac aaaggagatc atccagatta tcaaatactt gttgcatctg 300
 ctgtcagctg tcgcctaact tgtctatata ctagggtcga tccatgacat tacatgaggt 360
 tacgcatcgg ggaatgccctt aaaatgggtg aacgttaact 400

<210> 17706
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A2

<400> 17706

cccacacgtc cgggtcccagt ccactacaaa ggtgttgag tcctgggtatt cttgctggtg 60
tgcacctcgc ctttcagcca ccaagtttgt ttactctaa agctgaatgc caacctcttg 120
cctgtggtga ccagacccaa ccgtttttca cctccccgtg gacaagggtt cccacaagta 180
ttettggtcg tgtactactt gttccatgcg cggcaaagaa ctctaccaa caaggagtga 240
agattcaagc tgaagtgggtg actgaagatg aatctactcc agtggctgct gatcaagtgt 300
cggagccatc taactggggt ttaatacatg gatcgagtag ctcttactg g 351

<210> 17707
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A5

<400> 17707

aacacacgtt ctgctcactt cgagaggatt cctcgctct cctccccgcg cgctgcctcc 60
gctccgctca tgtcgtccgc gccgagcacc acggcgctga ccatcgagc ctctatccac 120
acgcggttct cctcgggtcg ccgcggggcc cgccttcgg ccgcgctccg cctctcgctc 180
gctcatctcc ggtcggcccg atgccgcgcg gcgccaggtc gctcgtcgc cctcgcgcg 240
cgcgttcggt gggcgctgc tgccacgttc attgggcaag gccagttccc cgcggaggtg 300
atggagtcgg agctgcccg gctcgtggac ttcgtctccg actggtgccg gcc 353

<210> 17708
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A6

<400> 17708

tgcttgatcc acaggaaaga ggctacattc ttgaccaagt tactgctgca aaagaagaat 60
 tgagggcaaa gcggaaaaag gagctgaaga aagacagtgc gtccaagata aaatctcttg 120
 tagatgaggg aaaatatgaa gagcagtttg aacgatcgga tggatttcag cagcaattaa 180
 taattaaagt acgtgaaatt ttgaccgaca aagaatggcg taggagaaaa atgcaaatga 240
 ggatatcaga ggaagaagga agacttaaga aggatgagga ggaacaaaa gagatgtgga 300
 agaggaagag agagcatgaa gagaagtggg aggagaccag agacaagcgg gtctccagct 360
 ggagggattt catgaagaca ggaaagaaag gacggaaaag tgaaatcaaa tcccc 415

<210> 17709

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A9

<400> 17709

ggatggcggg gagctgaatg gtgaggcagg ttcagtgggt ggaactgcag atggaattgt 60
 tactgaaaca tccaaggtcc cattcctgat gctcgggttt gacctgccac ctccacctct 120
 tttcaaagac gccatggaga aaaatatcat tccacaggta ccattgttta acatactgaa 180
 gaagttcgat ggtgagacag ttacagaggt tgtccgacct tccattgccc caatgaggta 240
 ccgactcact aactgccga agtatctgat ccttcatatg cgaagggtta caaaaataa 300
 cttttttgtc gagaaaaacc ctactcgagt taattttcct gtgaagaact tggagttgaa 360
 ggactacatt ccattaccta agccgacaga gaatcataaa ctacgttcaa agtatga 417

<210> 17710

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B1

<400> 17710

cgtccgcgga cacgtggggc gcctgctgga ccattctggcg cagatctatg ccgccggcgg 60
 gctgggtggc ggcccccgcg tcgccccgcc cgccggcgtc caaggccgcc gtccatgcc 120
 tgcccattgt ctcggtcgcc gccactgtcg gcgcagtgcg ccgtctgcac ggaggccttc 180

cagctgggcg tcctaggcca gcgaaatgcc ctgcgcacac atctaata

227

<210> 17711

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B10

<400> 17711

cgccggccga ctcgagcagc gccccagcag cctctgctcc gctgcctctg gcgaccgccg 60

gagcccgagg aggaggagga gggaagatct cgctcgatcc aaggaggtga gtacaagatg 120

gtgagctcct cgctgccggt ggtcaacgtg taccgctcg ccaactacac gttcggcacc 180

aaggagccca agatggagaa ggacacctcc gtcgccgacc gctcgcgccg tatgaaggtc 240

aactacatga aagaaggaat gcgtacaagt gttgaagcaa tcctattggt gcaagagcac 300

aaccatcctc acatactgct cctgcaaata ggtaatacat tctgcaaact tcttggtgga 360

cggttgaagc ctggagaaaa tgaaatcgag ggttttgaaa agaaattatg 410

<210> 17712

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B11

<400> 17712

agcaacaata gcagcaagag taagaataaa ggatctgggt ttgttggtat tggtcaggat 60

cgtgtcgagc ccttgcaagc acttcaaaat tctgggcaag aggtctgtgt gaacatagac 120

aaagaaaggg aaaagcgaag agtctctgag aactggaggg ggaagaagca cgaagaaaag 180

aaacgtacac gagagcagaa gcgaaaggac aagagaaaag ctaaagagat ggcttgatga 240

cacatgggat agctaggggg cttcaagggg tttacggaag ctctttaagc tcgctgcaat 300

cctttcagaa aggaacggaa tgcattcatc aatgtttttg ctgtaataca atgcgtgcgc 360

taagttagcg cttgccttta 380

<210> 17713

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B12

<400> 17713

aaggacgcgt gggcggacgc gtgggggggtg ccagccacgc tgctgctcat gttcgagcat 60
ccgattcacg aatccgccga caccgtaaag acggcgctgt cccgagcgct ggtgtactac 120
caccctttcg ccggtcgcat cgctgccgga gccgacgcc acgccgacgg cggcaagctc 180
cacatctggt gcaaccgcga gggcgccaca ttcgtgtctg cgcacgcaag ctgcgggggtg 240
caggaagtca tagggctgga tcgctcgga gcaccgacga cctt 284

<210> 17714

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B2

<400> 17714

accacacgtc cgcgcacgac accaggagtg agccgagttt ggtttggccg ggttattcag 60
tttattcttt attatgcaat tctagttttt gagtctatct tgtagtcctc gacttcccaa 120
tgtgtggggt gcaggattgg gtccgatcag tggagaattc atcatgatga catgttgcca 180
ggagatggag gcaggtcagt cttctgtcag atccggcggt tcattgactt tgtcgattgg 240
acatggattg gtggtttcag gctcaaagt ctccgggtgt ggtaccatca gaaccttcga 300
ttgagtctta ctttaagggc agacaagaaa gggtccttg 339

<210> 17715

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B3

<400> 17715

cagagaggag agaactagag aaagatcccc acccccaggc gacgcgaccg gcgagccccg 60
aaaccctagg tcgcgcgacc cgggcagcgc gcttctgcgt gactgcgtgt ctttcgggga 120
ggggacagcg ttaggacgcg acgaggttag cgaggccgctc tggccgacta taagcggaag 180

aatctcctcc gaagccttcc tagagctgtg aagagcgctg g gatcctctg gatttgcata 240
 ctcgagggga gctgagacaa ggatcatggca gaagtgtcgg tgtgatgtgt gcgcttcttt 300
 gtcgcattag ggttcgctgg agattggaaa gctgctgcac acatgat 347

<210> 17716

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B4

<400> 17716

cttgactga tagcttgtc caggacgtac gtacgtacgt agatcgatcc atcgatcgct 60
 agctagctga cgaccatggc gtcctctctc tctgccgcca tcaccgccc ttccttcaag 120
 gccgcgccc ctgcgcagc ggtcagcagg aggtccttca ccgtgcgtgc ctctctccgc 180
 aaggccactg ccaccgccc cgtggccgtt gccgccagcg tctgcttgc cggggggggc 240
 gccatggccc aggaggtgct gctgggcgca agcgactgcg ggctcgtctt cgagcccagc 300
 cagttcaccg tcaaggccgg cgacaccatc accttcaaga acaacgccgg gttcccgcac 360
 aacgtcgtgt tccacgaaga cgaggtgccg agcgggtgctg aggcctccaa gatctcgca 419

<210> 17717

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B5

<400> 17717

ctttgggtca gagactctga aatctttgag aaccgtgaca tagcagatga gatttcagag 60
 cagaaggggtg atatactgca ggttgaggaa ggcttttagag ggactctttt gtcacaaagt 120
 gtttcagcac agctttgtca gggcataaca tttagtgaat gagtttcttc cgtgagatat 180
 atgggtgcat acctgttggc ataagctagt taaggctctt acaagggtacc tgattgcttc 240
 agagggtagt caatcatgtc agttctagca gccctcgca aaagttgtct atgcttctct 300
 ccatgctgtc acactaagga tgtcaaatgt atcctcgctt gatgaaaacc gaagaaggct 360
 cttccttctt ccctaagtga atcgtgactt aggtatacca ctgggctacg gggctgtg 418

<210> 17718
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B6

<400> 17718

catctcaaca atccgaagat ctccgtaccg ttgaccaaca ccaaccggcc ggcgcacgct 60
 cctcctgcgc ccaccatggc cggcagcgac gccgaccgcg agaagagctg ctgctgcagc 120
 tgctgcacgc cgcctcatctc cctgggcgtc gtcgtgctca tgtactgggc catcttccag 180
 ccgcaccaga tacgcgccag ggtggactac gcggagctgt ccagcctcag cgtctccaac 240
 gcttcacccg gctcctcccc ctccccgtc acggtgtcct accacgtggc cgtgaacctg 300
 agcctctaca agcccagcaa gcgcgtcggc atctactacg acaccctgga cgccgcgctc 360
 cggtagccgc gcgcgtgct gagcccgcc gccagcgcg cgtagccgc cgagtt 416

<210> 17719
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B7

<400> 17719

aatgtatgca agatgaaacc gttctcaaga attttcaaga cgaaggtgaa tacatcatac 60
 acaagagagg ggtaaagttc agttatacaa gacttcttca tctagtttct ttaagtacaa 120
 cagaccactt ccattccttc ctctacacc aaaagccatg tttccacgt acgacgactg 180
 cccaactcgc cagcagcgat gtgcaagcac aggtgcagca gctagtagta gccgatgtcc 240
 ttgtcgtcga cgacgaggtc tccgttgatg agctcgcggt aggccgcgac gggccagatg 300
 aaccccctgg ggaggaggcg ggtggcgagc tcgacgtcga tgatgatctc cctcatggcg 360
 ggcttcttct cgccgctgac ggcgatgagg tagctcctgc cgagcca 407

<210> 17720
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B8

<400> 17720

aacaaacgca acctgcagcc atggcacaga agctcgcgcc accgacggcg gcggccgtcg 60
tcgtcctgct ggcgctcgcc ttgtcggccg ccgcgcagaa ctgcgggtgc gcgtcgggcc 120
tgtgctgcag ccggttcggg tactgcggga cgggcgagga ctactgcggc gccgggtgcc 180
agtcggggccc ctgcgacgtg ccggagacca acaacgcgtc cgtggccagc atcgtgacgc 240
cggccttctt cgacgcgtc ctgcgcagg ccgccgctc gtgcgaggcc aacggcttct 300
acaccgcga cgccttctc gccgcgcgc gctactacc gcggttcggc cgcaccggca 360
ccgtcgacga ctccaagcgc gagatgcgc ctttcttcgg gaacgccaac cacgag 416

<210> 17721

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B9

<400> 17721

aaacatctgt tgcaacataa gaatatgggt gacactacac gtctacaagg gctggtctag 60
aatgccgtgc tattgtcatt attttttaag tttatcaaga gctatctgaa cgcgttccat 120
ttggattgag gtgtattgaa gtggatggat gaggattttg attagtagtg gatttattcc 180
ctcttaaaaa aaaaaagggg gagtaactaa gagaatgtgc ctcaaaaaa aagggggggc 240
cgcccta 247

<210> 17722

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C1

<400> 17722

cccacacgtg cgtctattag gaggagtcaa cttacggggc atctagacac ttctgcaata 60
agggtggtag ccacataact acagcgatta gccgttgctt ggtacgctct tgtacgacac 120
tgtgggacgc acgcacatgt ggaggatatc cattgtatca tcacaacata atatggtacc 180

ctccgatcat acagcgggtgt ccagttctga gggca

215

<210> 17723

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C10

<400> 17723

cccacgcgtc cgatcgccac ccaccccatc tccatggcct gcgtctccgt caacgacgcc 60

ttcgtgatgc gcgcgtggaa ggagagtctg gggatcgggg acgagggtgt gtcctgtctg 120

gacggcaacg gcgagctggc gcgcgccatg ggcgtcgagc tcgacctctc cgacaagccc 180

gtggggctcg gcgtccggtc ccgccgtac gcgtctctcg cggaggacgg cgtggtcaag 240

gtgatcaacc tcgaggaggg cggcgcgttc accaacagca gcgccgagga catgctcaac 300

gcgctctgaa ctgcgcagcg catggttggt tcgtctcttc cggcaagagt tggtttcttt 360

tccctgaaaa taatcgtgac ggcaacggtg gcttgtgtta ctgccgccac tgttgtg 417

<210> 17724

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C2

<400> 17724

gaaatatcaa acctgtatct ctactctgta gatattcaag caaatgttat taaagggat 60

tcattacaga aatcatgtga tctcaatttt ggtgatgact actgcttcag tacgaaggag 120

ttatggcca tcatctttcc ttctgattct gaaaggattg ttatctctga aacgcgaaat 180

atgaatgagg ttgttcatac ccaagctaag acaattggtg atcatgatgt gatgtacaag 240

tacttgtcaa agaatttagt ttttgttgct actttgtctc cttaaagctgc tggatgatatt 300

ggatctgtgc taactgaaga agcttcactt gttgcatatc ttatgatgc agtcactgga 360

cgcatacttc atcgtgtaac tcatcatggt gcacaaggcc cctgtac 407

<210> 17725

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C3

<400> 17725

gtcgacgcct gcgtccgaat acagatacat cgatgttctc ctgtttcctg agcatgactg 60

gttgcaagtgg agacctcgaa attaaattat acgatgtgtt acaacttaag caag 114

<210> 17726

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C4

<400> 17726

ctcacgagcc acagcccaca gcatgctagc tctctagcca gtccagtcca cgcagcgcag 60

ggatggcgtc gttcgccgtg gcaacggccc cgtcgctagc ggccccggca gccaaagagga 120

ggccccgccg cggcgtcacg tacgtggagg gcatgaacgc ctacagcggc ctcaaggggc 180

tcaacaaggt gaccatgctc ggggtgcgca agaccgccga ctactccttc gccaaaggtcg 240

tggcgctcgt cagcctcgcg ggcacgaagc ggagcggcgg agcgttcggc gccacatga 300

gtgacgacgg ttgcacgaca tgagcgagcg cagcgaaacc agcacaaccg ccggtggaca 360

agcgtcccca tagaacggat cccaggcgga accccga 397

<210> 17727

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C5

<400> 17727

agacaacatg gccgcctccg cctccaccgt ctccggcctc gccgggcctt ccctggccag 60

ccgccccggc ttctccacca gttcacgcg gggcagccgg gtgtcggcga ggaaccccct 120

gatgagcagg aacctggaga ggaatggcag gatcacctgc atgacgtttc cccgggactg 180

gctgcggagg gacctgagcg tcacggcctt cgggctcatc ggctggatgg ggccgtccag 240

cgccccggcc atcaacggca acagcctcac ggggctcttc ttctccagca tcggccagga 300

gctggccacac ttccccacgc ccccgcccggt cacctcccag ttctggctgt ggctagtgc 360
 gtggcacctg ggccgtgttca tcgtgctcac cttcgccag atcgattca agggcaggac 420
 cgag 424

<210> 17728
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C6

<400> 17728

cttttgacag tcatgaggcg gaggtgtttc aggttgaatg gaatccaaat ttggccactg 60
 tattagcttc atctgccgca gacaagagag tgatgatatg ggatattaat aggattggcg 120
 atgagcagtc agaggaagac gcagacgacg gaccaccgga gctgctgttc gttcatggag 180
 gccacacaga caagatatca gagctgtcgt ggaatcctag cgagaaatgg gccattgcca 240
 gcgtgtctga agacaacatc ctgcagatat gggagatggc agagagcata tactgtgatg 300
 acctctccat gcaggttaac tgactcgtgc ctggaagcat aaaggtgagt tacctgacca 360
 atgatgcaag cgtatctgga ggggttatat acctgtatga tttgagagat t 411

<210> 17729
 <211> 97
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C8

<400> 17729

aaagtcactc gtactaacgc gtgtgccgac gcctgggagg acgcgtgggc ggccgcgtgg 60
 ggccgaaggc ctgatggatc ggctggcgcc gctggcg 97

<210> 17730
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C9

<400> 17730

agtaggtcct cttcacccaa cactagacca acatttaatg gttccttgtc aacagaacaa 60
 gtgaaagaga aggggagctg tttgtcagat cttgatatca gggatgttca gatggatgat 120
 cgagtgactt tgactaggtg gtcaaagaaa aatgtaacac ggctgtctaa caagaattca 180
 acaaacataa tagagtggag cgaaaagaca gtggaatcaa aatcttcgtc ctggggcttt 240
 gccaaagcga agtgcatttc taagattgat agagaggaca cagaaattac tgcattgggag 300
 aatattgaaa aagcaaaagc tgaatgcagca attcagaagt tagtgattaa gttagagaag 360
 aaaaggtcat cttcgtttga taagattttg aacaccctca aat 403

<210> 17731

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D10

<400> 17731

gaccacgcgt ccgagaggat aggcactgga gagtccggct tgcaataatt gactacatcc 60
 cattgctggc gagtcagtta ggtgttgggt tttttgatga caagctgggg gcactctgca 120
 tgcaatgggt ggaagataat gtcgtctcaa tcagagatgc tgccgccatc aacttgcac 180
 gccttgcgga agaattcggc ccaaagtggg caatgcatca tagaattcct caggtgctga 240
 ggaagatcag cagtccgtac tatttgtaac gcatgacgat tctgcaggct atctccttgc 300
 tatctcccgt catgggttgc agagattact tgtcaaaaac tgcttccagt tatcattaat 360
 tcttc 365

<210> 17732

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D12

<400> 17732

aggcgcgctc ggtccatatt gaccaccctg tcggcaattt ggtcctccag ctccataacc 60
 agtgccaccg ctgctccgtg gatcatctgt tcgaccaat ccgactccag gataaggctc 120
 ccctcgcgcc tgctgaagat atgggccaca tggcaaatcc aacacgctga tcctccttcg 180

ttcggcttgt gtccctcccc cctgagcacc cagcatgcgg atcaaggtta cggg 234

<210> 17733

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-014-Q1-E1-D3

<400> 17733

gtcgagnccg cgtccgattg gattgcgac caatgaagat ctttatactg gagctctttt 60
tctattatctt ctttctacgc tatecttaat aggggggttg ttacatctac aacccaaatg 120
gaagccaagc ctttcgtggt tcaaaaacgc cgaatctcgt ctgaatcatc atttgtcagg 180
acttttcgga gtaagtctt tggtctggac aggacattta gttcatgttg ctattcccgg 240
atccaggggg gagtacgttc gatggaataa tttccttaaa tgtattacc tatccccagg 300
gggttgggtc cccttctgac gggtcagtgg aatctttatg cccaaaatcc tgattccagt 360
aatcaattat ttggtaccac tcaaggagcg ggaactgcc ttctaaccct tcttggggga 420
ttcaatcca 429

<210> 17734

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D5

<400> 17734

cgcacgtca tcaatcgagc agaagggagg gagagagaga gagagatgaa ggagggcacg 60
gcgaactgca tcgacatcct catcgccatc atcctccgc ctctcggcgt cttcctcaag 120
ttcggtgca aggtcgaatt ctggctctgc ctctgctca ctttctcgc ctatctcccc 180
gggatcatct acgcgatata cgttatcacc aaggactagc cagctagcgc cgtaaaccgg 240
gacaaggtga gagagctagc tgatcagcca gcggagtaat ggagatgaac tgctgagatc 300
acttgccctg ctgctcaatg tttctgaatg taaagttcgt agcacgtacg tacgaagtgt 360
gttttggtg gagactgaat ctgagctgtg ctgtgctgtg atgctgctat ataacttgtg 420

<210> 17735
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D6

<400> 17735

```
accacgcgtc cgctgggggt gtcttgccac ggtctacctg tgatgttggt gttacgatgc 60
aagcacagcg ggaagccccg cctgacatgc agtgcaagga taagttccta gtccaaagcg 120
tcgttgcccc tgctggtata actgtgaagg atgtcacfgg ggatatgttt acgaaggagt 180
ctgggtataa gatggaagag gtcaaattgc gagtgaccta tgttgctcct ccacagccac 240
cctctccagt tccagaggaa tctgaagaag gttctccacc taaggcttct gaatcagaaa 300
acggagatgg accttctgga ggattcacca aagcactaag agagcgcatt gagcctcaag 360
acaaatctac agaggctgga gctttgggtt ccaagttgac tgaaaagaag 410
```

<210> 17736
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D7

<400> 17736

```
acaacgacat cacggtggag gcgtgggtca acacgcacgg tcccaacgac cgcacgctcg 60
cgcagggggt caagggtgac cccacgtacc tgggtggtgga gcaggacaag acgctggcca 120
cctacgggat caacgccgtg tgcactcacc tcggctgcgt cgtgccgtgg aacggcgctg 180
agaacaagtt catctgcccc tgccacggat ccagtagaa caaccagggc aaggtgggtcc 240
gtggaccggc gcctctgtcg ctggccctgg ttcacgccga cgtcgacgac ggcaagggtcc 300
tcttcgtccc gtgggtggag accgacttca ggaccggcga ggacccatgg tggaaggcat 360
gaggatgatc cggaaccagc ggtgctcagt gtcacacat gagacctatg tatgcct 417
```

<210> 17737
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D8

<400> 17737

aaagacactt gggcaatgct gttcttacta gcacacacaa gtgaagtttc taatttacct 60
gaaggcggcc aatgttacct tgacagtata tgagttcaat cagcagaatg tgccaaattt 120
gcaatcggat cctgagaata ttgatggaga gaagcagttt ctgaaccagt ctgcgagaga 180
agcctacagt atactagggtt ttggcataga agtcacactc ataagacaga cattt 235

<210> 17738

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E1

<400> 17738

ggtcgagcac gcgtccggtt tcaagatgat atcatcaaag gatttgtata caatacaaat 60
tactcaagtc cagaatgtcc gtgctgggtga cgttgtcaca ttacacttc tgagcaggtc 120
aagaaattcg ctactcctt ccatcaaaag ctctccagt gaaagttcta caacagatga 180
agagcattat aatgttttct caaagtttat ttgacatct gatgtggagt tgtctgttcg 240
agatgcaaaa ttggatccta gtaattgggt gcaaattggct gacttaggcc ttgttgatgg 300
acttgaggaa acttccattt gtgtctgctg ctttggagca actgggagag aagacgaaat 360
attggattga ttacagaaat tatgggggta gt 392

<210> 17739

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E10

<400> 17739

ccggtgacgg tgagtgaaca ccagccgtct tggcctgctc ctcccctgct gcagccatgg 60
cgacctccgc ggcgtctctg accgccgcca accccaccca gctctgccgg tcccgcgctg 120
cgctgggcaa gccagtgaac gggcttggcc tggggatggg gcgggagcgc gcaagccagc 180
ggagcatcac gtgccaggcg gcgagcagca tcccgcgcca ccgcgtcacc gacatggaga 240
agcggaagct gatgaacctc ctctcctag ggcccatatc gctgccacg gtcggcatgg 300

tcgtccccta ccgggccttc ttcgtccccg cc

332

<210> 17740

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E11

<400> 17740

acacagacgt tctagtaaça catctácagt gttcgcgctct gtggggggtta cagcaaggct 60

agtgtcatgg cagggttgact gaatctgtta cctatatitt cgcggttcat gtcttttaaaa 120

tgacagatca tgttgtctac gtgcttacgt gaagttccga ctcaattcca ctaaattcaa 180

ctggcacagt cccagtttt ttg 203

<210> 17741

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E12

<400> 17741

tgaagccttc tgaattgaca gaggaacagc ggcaacttct ttcattctaat gttctctgtc 60

aggaccagct gaaaaagatt ttacatgaca ctgatcttga aagcattgaa cagtgtctata 120

tggagatgaa cacagtagag ttcaaccttg agcaagctct gaatacgggt ctgatgcaag 180

gcattccttt gggcaaggaa aaacggattt caattgaacg taattggcct gtggaagtat 240

catgcatgta cctttacggg gacaatttaa ggcttcagca ggtcctagca gactatctag 300

catgcccct tcaattcaca caaactgctg aaggacctat cgtgctccag gtcaagtcga 360

agaaggaaaa aattggatct ggcattgcaga ttgc 394

<210> 17742

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E2

<400> 17742

gggtcgaggc cgcgtccggt gagatggcac aagccatggc gtccatgacc ggctctctgc 60
 agggcggttct gcccagcaag cgcgccgcca atagggccaa aacgggcgcc gtcgtcaagg 120
 cgtccgccta ggcgcaagcg caagcggggc gccgcgccgt gtcgggctg g 171

<210> 17743
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E3

<400> 17743

aggacacgtg ggcgacgcg tgggaagaga acccaaaacc acggcactga tatttgcac 60
 gggtaaaatg gtatgtactg gagctaagag cgagcagcaa tctaagcttg cagcaagaaa 120
 gtatgctcgt attattcaga aacttgggtt tccagctaaa ttcaaggact ttaagattca 180
 gaatattgtt ggctcttgat atgtagagtt tccaattagg cttgagggcc ttgcctattc 240
 tcatggtgcc ttctcaagtt acgaaccaga actctttcct gggcttatct atcggatgaa 300
 acaaccaaag attgttcttt taatttttgt ttcaggcaag attgttttga ctggagcaaa 360
 agtgagagag gagacctaca ctgccttcga aaacatctat cctgt 405

<210> 17744
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E4

<400> 17744

aggacacgtg ggccggaccg ggtcatcctg gtcgagcagg tggcagccgt ggccgcagac 60
 ggccggcgct cggcgtctga agctgcgcgg cagggtgtagg ggctggtggt gcaagcgcg 120
 ggcattggagc acgcctcgtg ttacgtgctc gacacctgcc gcatgcgctc gtcggccggg 180
 ttctgcacgc acttctgcct cgcgcggggc aaatgcttcg gctaagccgt ctagctccag 240
 ctccgcaacg cctgggtcaa acgcctcacc ggtcgccgat agccgccgcc cgtggcctcc 300
 gctaccactg aactgacagt attatatgcc ccaaggacca aacgcaatga tgatgggtcc 360
 tcttcgctgg caagaaccac gaagtgaagc agccaaaaca gcatccatca gatcttttcg 420

<210> 17745
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E6

<400> 17745

accacgcgtc cgagtcaatc cagtaaatac gctgtgggca tgtacaaata gagttacctg 60
ttaatttggt gttcctaaaa tgtatgatac atagactgca tttcagttgg gacatataac 120
accaaagcaa ttacaatgaa gtgtctgtt 149

<210> 17746
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E7

<400> 17746

atgacatcaa agatcagcac attaaacott gaacgagtta ggcaaatcaa gagtcgtctg 60
gttgcgatat ctggtcgagt acaaaatgtg acggatgagc tataacattt actggatgat 120
gaaatggata tggctgaaat gtacttgaca gagaagctta ctcaacaaga aattagtgac 180
gcttcatcta tagctgaggt tgatgatcca tctcacacag aagaggatag ggatgaagat 240
tatagaagtg agccataatg gaagcaatga tagctttatt gggtataagc ctaat 295

<210> 17747
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E8

<400> 17747

cccacgcgtc cgtttttcta aattaacaag ggggaaagg aaagattagc ttctccctcc 60
cttccctcc cctcccgta agtctgtcac ggagcagcgg gcaacggcgg ccggcaggca 120
atgcaatgaa gaaatgctcg gcgttggcct cggcgtccga ctgatggtag ctgttgcccc 180
tgcgcctcca gttccagccc caccaggcaa accgcctctt cctctctgct cctctctccg 240

ccaacgctcc tccggtcgtt ggttctccaa cggcgacgcc catggaagag acagcaccac 300
cgccaccacg agcatcaggg cgacgatgcg gaagtgggtg tccgaccccg acggcagcca 360
agaagactac ggttcctcgt ctctagagga cgacgactac cgttacggtt accacta 417

<210> 17748

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E9

<400> 17748

aggcgactcc aggtttgtcg gcgatgctgc gagcgggagg caggcggctc ctcgccccgg 60
ggctccgtcg gctcggcctg agcacaggcg cctccggcga ggcgggtcct gccgcggcgg 120
cggcgggggt gagggcgtag caccgagcgg tggtggacca ctacaacaac ccgcggaacg 180
taggttcctt cgacaaggac gaccccaacg tccgcactgg gttggtcagc gcgccagcct 240
gcggggacgt catgaagctg cagatcccg tgcacgaaaa ctccggcaag atcgctcgacg 300
cctgcttcaa gacttttggc tgcagctccg ccataacgtc ctcgctccgtc gctactgaat 360
gggtgaacgg aaaaccaatg gatgaagttt tgacaatcaa gaa 403

<210> 17749

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F11

<400> 17749

cccacgcgtc cgcccacgcg tccggaacaa gaggatctcc aagggaaga aggggtggcaa 60
gaaaaagacc gtcgaccctt tctctaagaa ggattggtat gacatcaagg caccgtcggc 120
gttcagtgtg cgcaacatcg ggaagactct cgtatccagg acacagggtta ccaggattgc 180
ttctgagggt ctgaagcaca gagtctttga ggtttgccta gctgatcttc agggcgacga 240
ggatcaagct tacaggaaaa tcaggctccg tgctgaagat gtgcagggca ggaatgtgct 300
cacaaacttt tggggatatga attttaccac tgataaattg aggtccctaa tgaagaagtg 360
gcagacatta atcgaagccc atgttgatgt caagacaacc gacaactaca tggt 414

<210> 17750
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F2

<400> 17750

accacacgtc cgggtgcagc tcgccttcca aaacaacacg ctggagggat ccttcataaa 60
 gaacgacgtc ccttattatt tttgggcctt ctttccaaaa ggagacctca caggaccgaa 120
 gggctttgcg ctatcgctct acagcaacga agtgagcacc atcgagccgt tcctgatcga 180
 tgagaagagg ataacggcca agtacgtggt gttctgggtc tacaagaggc tggctgggca 240
 aggcaccttt ccggtctgga aggaagagga gggggacgag gacgccgcca agtagtaagt 300
 tgcgcaagcg catacgcata cacatacaca cacacatggt gctgccgtga acatacacat 360
 gttacactgt aaagtt 376

<210> 17751
 <211> 183
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F3

<400> 17751

gcctccgcgg ctgcgtccgc cgcctcgcca tggactacgt cgacgtcgtc tactgccacc 60
 gccccgacgc gtccacgccc gtcgaggaga cgggtgcgcgc catgaactgg gtcacgcacc 120
 agggctgggc cttctactgg ggcacctccg attgggtccgc gcaccaatta accgaggcct 180
 ggg 183

<210> 17752
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F4

<400> 17752

gggtcgaggc acggtgccga acgaagtgcg agcgaccac gtccacacga cacgaaccac 60

gaccagcaac cagcagcggc accacgcacc cagcgcgggg ccattgcgtc gctcaccatg 120
atggcgtcct tcgcccccggt ggcggtcggc ggcgcctcgc gctgcagcac cttctccgtg 180
gtcatgtccg 190

<210> 17753
<211> 84
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F5

<400> 17753

atctgcacac gcgggtacat gttggaagtt attgcaggac atgtatatgt ataggacaag 60
tttattacag tcctgattga ttgc 84

<210> 17754
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F6

<400> 17754

cggacgcgtg ggatctatca tccgcgcgcg ggggtctgaga gcagagcggc agggcgccat 60
ggcggcatcg gtggcgctga gcagcgggca ccggatgccg gcgggtggggc tgggcgtgtg 120
gcggatggag aatgcggaca tccgcggcct catccacaca gcgtccgcg tcggctaccg 180
ccacctggac tgcgccgctg actaccagaa cgaagctgaa gttggtgacg cgctcgcaga 240
ggcattccag accggactcg tcaatcggga ggacctgttc atcacaacca agctgtggaa 300
ctcagaccat gggcatgtgc ttgaagcctg caaggacagc ctgaagaagc tgcagctaga 360
ctatctcgac ctccacctca tccagttccc agtagccact cggcacaacg ga 412

<210> 17755
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F7

<400> 17755

atattattgc aatggagttc agacaatttt tttagcattc accattgggtt tgttcggttg 60
 tctgtttttg gctcagtatt tttttctcgc gcaagtcttc tctacttggt gtgcattagg 120
 aagtttgggg ttctgcactg acttggtctc attggagtat tcgtcataaa agaatttctg 180
 tcgtggattg agtacaagga gcaaagtgtg cattgcgtac caatcagtta ttgtgctgta 240
 atttttttat ttctttattt ggtttccggg caaaattgag attaacacat ttcttccac 300
 agattgcagt tcttggtggc tctttgctgg gaacattcct gtctgaaaag attatagcat 360
 acattggagg gagcccaatc ttggcctttg ctgcga 396

<210> 17756

<211> 103

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F8

<400> 17756

agtaaatatt agtatattgc atagaactat atataggtgg tgccaatata cagggtgttta 60
 aaaaaaaggg ggggggtcat tctaggaatc tgtatgtttt act 103

<210> 17757

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F9

<400> 17757

acccacgct ccgaatttcg gcatatcggc gcacctggtt ggcagcttgg gtggacatgg 60
 gcaaagaagg aggttatatg gtcaatggtt ggggctcaga cactgaaca gggcgactgc 120
 tcaaagttca agagcagcct acccattgc tgcaacaaag atccaacaat tgcgattta 180
 cttccaggca ctccatacaa catgcaaatt gccaatgct gcaaggcagg acttgtaaatt 240
 acctttaacc acgactcagc aaatgctgct tctctcttcc agatcagtgt tggctctgct 300
 ggaactacca ataaaactgt taagggtgcca aggaacttca ctcttaagac tccacgcct 360
 gggtacacat gtgggcatgc cattgttggc acggctacaa ctttttt 407

<210> 17758
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-014-Q1-E1-G10

 <400> 17758

 acccttccat gtggatcatcc gcgcacaacc ctcaccgcgc ttccgctgcc aatcctcgcc 60
 gctcttccgc tgccaaccgt tgcgcgggcc cgactctgtc ctgaagccgt ggcgtacggg 120
 ggattcactt ccattcgacg caatctggcc tcgtcgtcca tctcgcgggc gcttgttcgt 180
 gcgcgtggat tgttttatca ggggtctgta cccgtgccct aagtgggagc gtccgctaag 240
 tttcctccta aagggcgcaa tcactatggc tcgcaactgc cttacagcgt gcagcaaccg 300
 tactgccaaa tcctagtag cactggattt gcagc 335

<210> 17759
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-014-Q1-E1-G2

 <400> 17759

 gcgtccaccc acacgtccgc ccacgcgtcc gcccacgcgt ccggacttgt ttcattgatt 60
 cttgaagaga tcgagcttct tttgcaccac aatgtcgagg atgtcttgca actgcggatc 120
 aagctgcagc tgcagctcaa gctgcaagtg ccgcaagaag taccctgacc tgtaggagac 180
 gagcaccgcc gcgcaagcca ccgtcgtcct ccgcgtggcc cccgcgacaa aggccccgcc 240
 ccaattcctc caggccgcgg cagaatccgg caaggccgcc cacagctgca actgcggtgg 300
 aaacggcaac tgccaaccct gcaactgctg atc 333

<210> 17760
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-014-Q1-E1-G3

 <400> 17760

 aggacgcgtg ggcggacgcg tgggtgcaac tgcaagctaa ggagagtgtg atcaccaaca 60

gctagtgtcta gtcccccttc cttocatcca tccatggcat gcgtcagcac cttccagagc 120
tgccccattg ccagaagagc aaagatcaac accaggtcca cgggcagcag cagtagcgtg 180
gcgaaggggt caccaccacc agccttccag ttccagtga gggcgtcgac tttcgcggcg 240
gacaccagcc tccggctcga gctggacgag aaccccgagg cgatcatctc gggggcgtgg 300
cccgggaact gtcctctcct cagctacgac gacctccgcg cctacctcga gtcgcaggag 360
acggcggccc aggcagaacg tcagcgcggc gtggcgctcc tg 402

<210> 17761
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-G4

<400> 17761

gcaagtacaa catggagatg tctccaagg cgtacaaagc ctggaacttc acggaccttg 60
ctcttcccaa cgatctcatc aagagaggtc tggcgaaagg agatccaaag aagccagaga 120
cgctggagct ggcgataaag gactaccgt acgcggtgga cgggctcgac atgtgggcgg 180
cgatcaagaa gtgggtggct gactactgcg ccatctacta cgccgacgac ggcgcggtgg 240
cgagggacag cgagctgcag ggggtgggtgga gcgaggtcag gaacgtgggg cacggcgacc 300
tggcggacgc gccgtgggtgg ccggcgatgg actgcgtcgc cgacctcgtg gagacctgcg 360
ccaccgtcgt ctggctgagc tcggcgatcc acgcgtccat cagcttcggg cagtacgact 420
ac 422

<210> 17762
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-G5

<400> 17762

agaatccgca gtactatgaa atttctgcc aagcaacta caattttgag aaacotttcc 60
tgtacctcgc aaggaagctg gctggatgc cgaaccttca ctttgttgaa gctgttgctc 120
ttaagcctcg ggaagttacc atcgacatgg ctatgcagca gcagcatgaa gctgagcttg 180

ctgcatcagc tgcacaacct cttcctgatg acgatgatga tctgattgag tagagaggat 240
catgattctt gaacttgagc aagagttgtg ccatgcgtgt tttaaattgt tctacgggtga 300
actcatgagt tctcattgtc tggatcatct ttttctcctt ggggtgtgtg catcttttga 360
gtgtggcaat ggatgggtact cctcgccatg aatttgctgg gtactttaaa cattgc 416

<210> 17763
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-G6

<400> 17763

attcgggtggc gcccgcgccg agctcggatg ccgcggcgctc ggcgtcgtgg atcgacagga 60
agctgcttgt tgatccaaag atgctgttcg ttggggacaa gattggggag ggagctcatg 120
gcaaggtcta caaggggaag tacggtgatc aaattgtagc gataaagggtt cttaacctgtg 180
gcagcaccctc tgaagaaaaa gcaacacttg aagcccgttt catccgagaa gtaaatatga 240
tgtgtaaagt gaaacatgag aatcttgtca agtttattgg agcttgcaaa gaaccattga 300
tggtgatcgt tagtgagcta ctaccagga tgctactgaa aagttacctg catagcatac 360
ggcctagcca attagatata cacactgcaa taacctatgc actggacata gctcatgca 419

<210> 17764
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-G7

<400> 17764

accacgcgtc cgcggacgcg tggggcgacg ctcaactcaa acccccgtcc ctaacgcaga 60
agaccggcgg cagcggcggg ggtgtgtgtg tgtggactgg actgtaacca attgccagca 120
atccagtcac ccatccatcc atccgccccg ctgacggcgg gaatggcccc gctcgtgctc 180
tccgagtgtc gcagcctcgc gccgctccgc ggccctggctc ccgggcgggg cgccattgcg 240
gcgccatcac gcccgcgct ctcgctgcg ccgcgccgtc gtcgcacgtc cacctccatc 300
cacgctact gggcgtccg cgtctccgc 329

<210> 17765
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-G8

<400> 17765

ctcttcgacc ggccgcagcc caactcccc accgtctacg actggctcta cagcgacgag 60
 accaggagca accaccgcta gatcggggcga gatggatgga cagtgaagag gccatgtttg 120
 ctggtccttg tggttatcta aaacgcacgc atgctctatt atagctagtc atcactatat 180
 atatacttgt gtttgtgtat tggtgttctt gttctgctgg tgtctccgcc gtttaatttg 240
 acctagttct agatcgcca 259

<210> 17766
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-G9

<400> 17766

cgccgcacca gcgccagccc gcgcgctggg cagaaggagg tccttcaccg tgcgcgcctc 60
 tctccgcaag gccaccggca ccgcgcgcgt ggcaatggct gccagcgcgc tgcttgccgg 120
 cgggtgccatg gcccaggagg tgctgctggg cgcattgcgac agcgggctcg tcttcgagcc 180
 cagccagttc accgtcaagg ccggcgacac catcacattc aagaacaacg ccggctttctc 240
 gcacaacttc ttcttctacg aacacgaggt gccgagcggc gtcgacgcca ccaaggatct 300
 cgcattgagga cttactcaac gcgccaggcg agacctactc cgtcaccttc accgtgccgg 360
 gaacctacgg cttctactgc gagccgcatt aaggagcccg aatggtcggc 410

<210> 17767
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H1

<400> 17767

gatcgattca aaaatgaatg gcacaggcca tcgatagatt gattcatcca ctgatgacga 60
tacatgcgtc tgtgcttagt ttacatcgac cgcttacagc aggcagccat tgacattgat 120
tgatgagcac acatcgatca tgagcatacg ccggctggtg caactactac acgcctacga 180
tctgaacaag tagagtacag agaagaccac actgttcact cgacggacgg acgaacgaat 240
ggatggatct gatggtagta cacatgtacg gcgttgctca gtcagttagt tgccggggac 300
gaagtctgtg gcgtatgccc aggcgttggt ggcgacggg tctgcgacgt ggtcgaagag 360
gttctcgatg gggcccttgc cggtgacgat ggcttgca 398

<210> 17768

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H2

<400> 17768

gtacgagaca aattgtatta atcgtatggt ataatattha tacatgtgca agatgagcta 60
tgcattagac agtagaaaaa cccgaccaca gtgtaaagcc cctgtcgtt cctcgcccc 120
gactcgcccc tcatggcgag gaggcgtgc tgatgcctcg cggcgtcaga tctgacgctg 180
ggggcaagac acctagccgc ttgcggtggc gctcgcttac gtcaccaatc cgccgaacac 240
tgctcctcgg gaccccccaa agattcaagg cccgtctcgc ctgctcctgc ctag 294

<210> 17769

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H3

<400> 17769

accacgcgtc cggccacgcg tccgcgccc cgtcgacttc ctagggttcg aggaacgtcc 60
gtccgtccgt ccggggaagg agcacgaggg aggcggagat gatcgaggtg gtgctcaacg 120
accgcctggg gaagaaggtg cgggtcaagt gcaacgagga cgacaccatc ggcgacctca 180
agaagctggt ggcggcgag acggggacgc gccccgagaa gatccgcac cagaagtgg 240
acaacatcta caacgaccac atcacctca aggactacga ggtccacgac ggcatggggc 300

tgcagctcta ctacaactga gccgcgcgcc ctcctccct ctcgtcaggt tggctcgaat 360

tctgaagtca tgggtgcaat tcgcttcgag gtgatctcta agctcatcac atatataaa 419

<210> 17770

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H4

<400> 17770

ccgtggcaga cgaagaacac cttccaccag accggcaccg aggccttgac ctgcggcgtc 60

aagggcgggc acgtccacct catctccgag gccgcgacgg acaccgaatg ggacggcgac 120

tgcgccatgt accggcatgc cgacggcgac ctcgtcgtcc tccgcacga cgcggcggtg 180

cccgtctccc tcaaagtcct ggaacatgac atcctcaccg tgtcacccat caaggagttg 240

gcgcttggtt tcaggttcgc cccgatcggg ctggtggaca tgttcaatag ccgcggggcc 300

gtggaaagcc tgacctatca ctcctcggg ggcgacggtt ccaccttggg ct 352

<210> 17771

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H6

<400> 17771

cacgcgtccg cacacgcgtc aggcctttgg attgggattg gagcgtcttg cgatggtcct 60

tttcgacatt ccacatattc gactattctg gtcgatgat aaacggttca catcccagtt 120

ctcagaaggc aagcttggtg tcaagttcaa gccattttca aagtttctc cttgttataa 180

acatatgagt ttctggatca atgatgcatt tacagtaaac aacttatgtg aggttgctag 240

atgaatattc ggggatattg ttgaggaggt aaaactt 277

<210> 17772

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H7

<400> 17772

gccttgtatt tgtactcact tcgtattcca cctgcaacgc tgctgcaagc tcaactcatct 60
ccccagcgct ggctcgcatc ctccactcca atatgcagtt cggctctgggtg ctccctaccaa 120
gtaccgacac cagcgtgggc ccttttttttc tctgtcttgg cgggccacct ctgctcctcc 180
ctgctgccgc gtcgctggcc cagctcggat ctgctcgacc ccatgttgag ctcccatctg 240
ccatggtcgc cggtcagccc ctgcgcacgg cttcctgcgc gccgggatgg ctgctctcca 300
ctgatcaagg acgcttggaa acagcagtag cccatctcag cactagctat ggtggctcgac 360
gttcagtcgg accgtgccgc tgetccatc atggctgcga gtccaactcc ggcgagct 418

<210> 17773

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H8

<400> 17773

cccacgcgtc cgcacggcac gacgcagccg agaacaagtt catctgcccc tgccacggat 60
cccagtacaa caaccagggc aagggtggtec gtggaccggc gcctctgtcg ctggccctgg 120
ttcacgcega cgtcgacgac ggcaaggtec tcttcgtccc gtgggtggag accgacttca 180
ggaccggcga ggaccctgg tggaaggcat gaggatgac cgaaaccagc ggtgctcagt 240
gctcacacat gagacctacg tatgcctccg ttccttgtga tgaggaaata tgcctgcgtt 300
cggctctcct tggcgttggt cctacaaatt cacttgctt ctgtctcccc ctccatatac 360
acactgttgt aaaac 375

<210> 17774

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H9

<400> 17774

acggaagttc caggccccgt tgcagctggg agtgggttta tactcgctga tgacatcaag 60
tcttaggtgc ttccattgat caatgactca gggaaatatg gagggatcat gatgtggttc 120

aagtactatg atgatcaaga tggctacaat tcttgagtga agagtgatgt ttaagttggt 180
 gtctgtgggtg tgtgacaata tctgtgtggt acttggtgtgt atgtgagaaa ttatgtgact 240
 ctggagtctg gatagtgcaa taagtattac tcaagtatat gatgtgaaa 289

<210> 17775
 <211> 92
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A10

<400> 17775

cccacgcgtc cgccacgcg tccgccacg cgtccgccca cgcgtccgcg cgtgtggagc 60
 catgcttgcc agcgcgacga gagcagggac gt 92

<210> 17776
 <211> 84
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A11

<400> 17776

tgatattttt gaactgtggt tgcattttgc aagctccaca aatatatctc ttttggaaaa 60
 tcttgcttga aaagcgagaa taaa 84

<210> 17777
 <211> 89
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A12

<400> 17777

ctgacacgtg ggcgcacatg ccggtcaggc caagcgtctt gcacctgcgg ttcaagtcga 60
 gccacgttca cccacctcat ggggtgtgaa 89

<210> 17778
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A4

<400> 17778

cacagcacat agatcgacga cgatatcggg aagcaatatg gggttggcct tgctcgggcg 60
catggcagcg gaagacggcg aggctgacag tccggcaccg gcgccagtgc cgccgaccgg 120
tgctgctgct gcttccggcg gcggcactga aaagaagaag caggcggacg actcgtcgtc 180
gtcgtcaaag acgacagaat gggttcctca taagttctct gagatcgtcg gtcaaagacg 240
acctggtgag gatatgttcc gagggatcta ccttccacaa tcggatcagc agccgaaaac 300
aacaagaag tactgggtag atgggagaaa tgccaactgc ttcattgctgt tccctaaagg 360
attcagcatc acctgggggt cggacgaaag gtactggagt tggcgcaagc tcacacaaga 420
agagaaaaga gggatcga 438

<210> 17779

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A6

<400> 17779

cgagaaggag aactccatgc tccatgagca ggtcaccatg ctgatgaaca tgctcgacga 60
gaacgagggg ttcgacgagg acggagaggg cccgccgccc gattccttcg attaacggtt 120
gttacagtac tatatccgtt ttctttttcc gtcagtgtga aatcatacgt ctctaggtgc 180
tggtttcaga gtatccgaga gatatgtgct agctagctgt gtagtaggat ttcattgggtg 240
atcgtattcc attacattac atggctttgg cttctgtaga taaaggggtgc attgcatgtc 300
tgttgtaccg tactgtacct actccttttc taggcttcaa aagtgtatgt gagaaactag 360
caacatgtta tatttgaatc gaagtgtatg tacatgttac gtaaaaaaaaa gagagggagc 420
ggg 423

<210> 17780

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A7

<400> 17780

cagacgcgtg ggggcgacgg gaaggccagg tctagcaagt cgcgcggcga tgatctcctc 60
accctctccg tcgctgtcgc cgtcgccgtc cgggacgcct tcgccaagg gcgtctccgc 120
tacgccgcgg cagggcagca gcaggtggcg cagcggcgcg gtgcgcgggg cgtacggggc 180
ggcctgctg gacgcgctcc gcgccacggg cgacggccag ccgcgccac gcgccgtcaa 240
ggcggcggcg gactcggcgc tggcgctgac cgcgcgcggc cagacgcggt ggagccgcgc 300
catcgtgctg gccggtgcgg tctgcccggg ccgacgcgcg gtcctcgtca agggcggcg 360
caacgtccgg cggcggcgcc ggccgcgcc gccggttgca ggccagtaga cgaggcggcg 420
g 421

<210> 17781

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A8

<400> 17781

acgagcgaga gcagcacaca ctgcacgcag ctagctagga gcagcagcag cggcggcgat 60
ggcggcctcc atgatctcct cgtcagctct ggccggtggcg cctcagggcc tgccgccctc 120
cggccgcgcg gcctcctcct tcgccgtcgt ctgctccaag aagaagatca agaccgacaa 180
gccctacggg attgggggtg gcctgaccgt cgacgtcgac gccaacggga gaaagggcaa 240
gggcaagggc gtgtaccagt tcgtcgacaa gtacggcgcg aacgtcgacg gatacagccc 300
aatctacaac gaggatgact ggtctccac cggcgacgtc tacgtcggcg gaaccactgg 360
gcttctgata tgggcccgtc cctcgtctgg gatcctcgcc ggccggcgccc tcctcgtcta 420
caac 424

<210> 17782

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A9

<400> 17782

cggacgcgtg ggggatcata gaatctactg taatcactgc aacagagtgg tctcactctt 60
ctctcattta agtaatttct tcaggttcat cgtaca 96

<210> 17783

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B1

<400> 17783

cccacgcgtc agcccacgcg tccggggatt tgattattga ttgggtacaa gaaggttttc 60
aagagttttt ccagaaaactc gatggacatt ttcattgtgct ttctgggaga agcaaaacaa 120
attcacaaga gtcaactatg gattctgtgc aaactgataa gatccccaca gtcttggtac 180
ttatgcttgc acaactctgt gtttacattg aacaaacaac agttcctaaa gttacagagg 240
agttagcttc tttttttgga ggtgggtgcac atagctacga atatggacca ctttttgtgc 300
ctggagaaat atgtcggcta tatcgttcat ctggagagaa attcttgcac cattacataa 360
atatgaagac ccagaagatc tccaaacttc ttaacaagcg atttacaaca ccagtttggg 420
ttaagcacia ggaaccttag ggaagtga 448

<210> 17784

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B11

<400> 17784

cggacgcgtg ggcgcagtcg ccgttctcat cgctacgcc atggccatgc tcttcctccg 60
catcaagatc cccggctacc tttggtgagg ctga 94

<210> 17785

<211> 92

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B12

<400> 17785

cccacgcgtc cgcgagtaga tcaaaaggag gaggaggatg gcgaggagtt cgttcaagtt 60
 ggagcacccc ttcgaaagga ggcaagctga gg 92

<210> 17786
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B2

<400> 17786

ctcgcggatc cacgcaagcc tctaaactga ttcttaatat accattacgg caagtactgc 60
 ttcgcctggg gctgctgcgc gctcgagggc gccacctgct gcgacgatca ctacagctgc 120
 tgcccccatg actaccccat ctgcaacgtc aggcattgaa cctgcctcat gggcaaggac 180
 agccattgt cactgtcagt gaaggctacg atgcgaacct tggccaagcc gcactgggct 240
 ttctccggca acacagctga cgggatgaag agcagcgcat gagaaaacgc agcgtggcat 300
 taggtcgtca gcaacctgtg tgggccatta gagcccctgc gtgggaaatg gtcacctggc 360
 cccctgattg acgacggaag catggctc 388

<210> 17787
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B6

<400> 17787

cagacgcgtg ggctcctatg gcctctactc acgcaagcag tctattcct gattccttgc 60
 tcggcttgcg tggcccatgg attcgatgct atatcatgtg ttgtttgctc acccgcttgg 120
 tcgcagttcg tgtcgatgg cgtgttcttc gcggagctga atgagatgct cgcggaggac 180
 ggctactccg gcgtcgaggt ccgcgtcacc cccatgtgca tcgagatcat catccgtgcc 240
 acccgcgccc agaacatact cgcgagaagg gccggaggat cagagagctg gcttctgtga 300
 ttcagaagcg ctttaactta tcagaggggtg gcgttgagct ctacgcagag aagctgaaca 360
 acccggggct ctgcgacatt gccagggccg agtcgctccg ctacaagctt ctcgggtgaac 420
 tcgccgtgag 430

<210> 17788
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B7

<400> 17788

catgaagaac tggagggagc agagttggaa tctcagcttc ttgagcctgt tgcagctcct 60
ccggtgcatc cagtgcattg ccagcccaac aagcaaccag ctccgacctg cccacagaaa 120
gttacagctg aagatgatga acttgctgca ctgcaagcgg aaatggcatt gtgatcaggt 180
tctcatggag aggtgaaaca tgtaaataaa gatgaaagct gagtcagcta tactatatat 240
ttgccatgcy tgtacaaact tggccggata tttggcaacc gcagcagaaa aaagaggctg 300
ctccagccca gtgcttgttt cagtgacttt ggaatctgtt gtcgatcgat gacagttctt 360
ctgttaatgt cgctcgggta gctctacgct aattattcag atcacccaac gtgcagtgtt 420
tcagtgtttt g 431

<210> 17789
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B8

<400> 17789

acgagcgctt tgtgatcctt gactgcgtgg aggggtaacc gcggtcacag cctagttttg 60
ttcttgctct tgatttttgc cttcactgga gagtagtggc aatctaaaaa atgtggagtt 120
actggagtag gtttggtcat tgatgatgtt ttcagccatg ttccatggga actttttaca 180
taciaaagaaa gtatagggtt ttataattga tgtaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa ggaaaaaaaa ataaaaaaaa agaaagaaaa aaaaaaaaaa agaagaaaaa 300
caagaagatc aaaaaaaaaa agggggcggc cccccaagg gttcaaag 348

<210> 17790
<211> 118
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B9

<400> 17790

ttccggggtt aacctacgcy tccgaaggag tccccgctcg ggttcaagga gctggagtgg 60

ttcaccgaca tcgacctctt ccacgagcag acgccgaaag ccggcaggag attggctg 118

<210> 17791

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C1

<400> 17791

aatccatcca tgacgcattc tcttctcgcat tgctgggcct tagcatactg tcaggctacc 60

agcaagcgaa gtagctagcc atgctcggcc tccccgccgc gcccccgcc gccgcagcac 120

cgccgaaccc gaagggcaag gggcgatgca gcgcgcgcc gccaccagcg atgacaggcc 180

gggtgtcgtt ggctgtccct gggcggtctg tctcgtctc gctcttctc tgggtccagtc 240

cagtgaacgc cggcatcctg tccggtttct cgggactgga gtcgactccc ggccccgacc 300

tcccccggtt cgagttcctg gagaaatgga atgcggagaa ccagaagaag tacaccgagt 360

tcgataacag gttcaagaag tccaaggtgc tgcacgacct gtcgagaag agcaggaaga 420

acaaagagaa gaac 434

<210> 17792

<211> 92

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C10

<400> 17792

tgaacctctt aaaaaatgtg gggtcagtga tggagagata tgcattgatg caaacattgg 60

gcctgagacc gttgaagagg tttatgcact ag 92

<210> 17793

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C11

<400> 17793

cacacgcgtc cggcggacgc gcgcccggtta tccaccacca ccaccaccca accccaaacc 60

ccagagcctc ccgtccgttg ctgggggttg ggg 93

<210> 17794

<211> 92

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C12

<400> 17794

cagcaatcgt cagacatatc taaagataag caagttgatc cagctttagc agacacactg 60

aagctctcct tcacacgctc agagttttcc at 92

<210> 17795

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C3

<400> 17795

ccagagcctg acagatttag gcagccactt cttgaggaac tacgttatga tgagattatt 60

gctccatcta gccagagga gacggtggct cttgccgagg agacacttga agcgtgggag 120

gccgttcggg acggagcctt gaagcttatg aagggtatg cagtgagggt ttgtggatac 180

tgccctgagg tgcattgttg gccactggc cacaagcac ggaactgtgg agcttttaag 240

caccagcaga ggaatggaca acatggatgg caagcagcgg tgctcgatga cctgatacct 300

cctaggtacg tgtggcacat gccggaatcc ggggaaaaac t 341

<210> 17796

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C4

<400> 17796

cacgcaggcc agcggcggct acaaggtggc catccttggc gcggcgggag gggtcgggca 60
 gccgtgtcc ctgtggcca agatgtcccc gctcgtctcg gcgctgcacc tgtacgacat 120
 cgccgccgac gtggagggcg tggccgccga cctgagccac tgcaacaccc cggcgcgggt 180
 ctccggcttc acgggcgaag acgagctcgc ggggtgctg tcgggcgcgg acgtcgtggt 240
 ggtcgccgcc ggcgtagcgc ggaagcccg catgacgcgg gaggacgacc ggttcggcgc 300
 caacgcgggc gtggtgcggg agctcgtggc ggcggtggcg gaccacgcgc cgccgggcgc 360
 gctggtgcac gtgatcagcg acgccgtgga ct 392

<210> 17797

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C5

<400> 17797

cacacgcgtc cggcatttga tgatatctaa ggcaattcat gtaactccac cttgctgatt 60
 cccagatagg gttgcagatg attgaaaaat ggctttgtac aagccgacga gcctcttgcc 120
 atctagggcc tttctcatga taatgtcttc ttccttagtg aaaatttttg tggctgttga 180
 gcgttctata tgccttgtaa gatgtattat tatgaacttt aactccttca atcatccagg 240
 tggaaatttt gtggaccatg gtgcaattga acaaaatggg gatattgtag aacc 294

<210> 17798

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C7

<400> 17798

cagacgcgtg ggccgacgcg tgggtgcaaa tctcagcctt cttcgcttgt accagtttga 60
 gccagaaagg atgagcatac agattgtggc ccacatactg attaaggctc tcatggcaat 120
 gccagccctt gacttcagtt tgtgcttatt cttaatccct gaacatgtgc aaatggagga 180
 gcaattcaag gtattgatag ttctttctca ctacctagag actgctaggt tcagtcaatt 240
 ttgggatgaa gcagcaaaga accgccacat atcggaagca gtgccagggt tcgaacaagc 300

aatccaatcc tatgcgattc atgtactttc cttgacatac cagaaagttc caaggcctat 360
tctttagtag gcaatcaaca tcgaaggtct cgcgttggac aagtttcttg agtaccatgc 420
cgcgaactca gggtgggtga 440

<210> 17799
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C8

<400> 17799

cggacgcgtg ggcggacgcg tgggaggacg cgtgggctgc tgcgcttcca acaccatgga 60
cggcggggga tccggcaatg cctccggcgg cagcggcggc gcatcgacgt gctgctaeta 120
cgcgctcctc ggcatccgca agaacgcctc cgccaccgac atacgcgccg cttaccggag 180
gctcgcgatg aagtggcacc cggaccggtg ggccagcgcg cccggcgcgg ccggcgaggc 240
caatcagcgg ttccagcggg tccaggaggc atactccgtt ctgtcggaca aggggaagaa 300
ggccatgtac gacgccgggc tcttcgaccc cctcgacgac gacgaccagg atttctccga 360
cttcatgcag gagatgctgg tgatgatgga tagcgtgaaa aacgagaagc cggacacgc 419

<210> 17800
<211> 94
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C9

<400> 17800

tgaagacacc ggtgcaccgg ccacagctct ccttgatgct ggcccttcac aagtttaaaa 60
cgtcagagaa cctcaggaga tattcaatcg atgg 94

<210> 17801
<211> 90
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-D10

<400> 17801

ctgggatcca cacgctcaag cggctgacag agcccggcac ctacgagtac ttggacaaga 60
tcaccggcga actcgccgt gggatactgg 90

<210> 17802
<211> 91
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-D11

<400> 17802

cccacgcgtc cggcgtatatt tggagcacag gttttgcttc tgaagttgtt ttttcttggt 60
tcctgtatag aataattttg tcatggcact t 91

<210> 17803
<211> 89
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-D12

<400> 17803

gaggcgctga ccacccgccg ccgagtcggg cgaaacaacc gcctgtagtt ccagagtagt 60
acctcatggc ggccatatcg tcaacttccc 89

<210> 17804
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-D3

<400> 17804

ggtcgcccta accacggcgc tactacaagt gcagcacggt gcgcggctgc cccgcccgga 60
agcatgtgga gcgcgacccc gccgaccgt cgatgctgat cgtcacctac gagggcgagc 120
accgccacag ccccgctcc gccaggacc cgcgcgcgc gtcgctcgc cgcgtgccg 180
agctgcccag ccattgattt ggcttcctgc ctgctctgtc ctgtcaatta ctagtagctg 240
ttgtcataag ttataaaatc aaaatcgcca gttcagtttt agcagctccg ttttccgagt 300
tttttctctt ctgtcgttcg cgtagcagc tttgtgaaag gattacgaaa gtgttagcat 360

cagacttgga gaagggaaa

379

<210> 17805

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-D4

<400> 17805

ccgatccac ccacgcctct ggagtaacgc gcgcgcgtgc atgaccctag ggctgggcag 60
cggcgcccgg gaggccatgg agaggctgga tcagaaactc cgtgcgcaga gacaacctgt 120
ggtgctcaag aggcattgagg tgagcacgag cccactccc gcgaaagcgc acgaagacgc 180
aacgttcagc tgcagtctcc atcgccagta gtcggcagcg tgcattcagc acacgggcgt 240
gcatctgcgg cggaagtgg tgtcttctcc gagacctaac aataaaggag gacgaggacg 300
gggccgggtc cgctggtgcc tg 322

<210> 17806

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-D5

<400> 17806

aacattttga agcaagaact atttgcagat tatgtctcta tatggcctac caaattccaa 60
aacaaaacta atggaatcac gcctcgaaga tggctccggt tttgtaacct tgagttgagt 120
gaaatagtca caaatggct aaagtcagat cagtggacaa gtaatcttga tctgctcact 180
ggacttcgca aatttgcaga tgatgaaaag cttcatgctg agtgggcagc agccaagtta 240
tcttgcaaga agcgcctggc caaacatgtg ttggatgtga cagggtgttac gattgatcca 300
actagccttt ttgatataca gattaagcgc atacatgagt acaagagaca gctcctaaac 360
atattgggag ctgtttacag atacaaaaaa ttaaagggaa tgagtgcaga agagaagcag 420
aaggtcacac cgcgcactgt catg 444

<210> 17807

<211> 396

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-015-Q1-E1-D6
 <400> 17807

ggaggcgtgg ctcaacgcac ggtcccaacg accgcacgct cgcgcacggg ctcacagggtg 60
 accccacgta cctgggtggtg gagcaggaca agacgctggc cacctacggg atcaacgccg 120
 tgtgcaactca cctcgggtgc gtcgtgccgt ggaacggcgc cgagaacaag ttcactctgcc 180
 catgccacgg atcccagtag aacaaccagt gcaagggtgt cctgggaccg gcgcctctgt 240
 cgctggccct ggttcacgcc gacgtcgact acggcaaggc cgtcttcgtc ccgtgggtgg 300
 agaccgacat caccgaccgc gacgagccgt cgtggaaggc atgacgatga tccgaaacca 360
 gcggtgctca ctggtcacag atgagaccta cgtatg 396

<210> 17808
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB84-015-Q1-E1-D7
 <400> 17808

aacacgcgtc cgcggacgcg tgggcggacg cgtgggctcg ccgcctcact ccctctgagg 60
 tcgcagatcc gtccggttag acgaagccgc ccgcacccat ggccctccgt gagctcgct 120
 gcacctacgc cgccctcatc ctcagcgacg acggcatcgc catcaccgcc gagaagatcg 180
 ccaccatcgt gaaggcggcc aacatcaagg tcgagtccta ctggccggcg ctcttcgcta 240
 agctcctgga gaagcgcagc gttgaggatc taatcctctc cgtgggatct ggtgggtggcg 300
 ctgctccagt tgctgcttcc gcccagctg ggggtgctgc agctgctgct gcccctgctg 360
 cagaggagaa gaaggaagag cccaaggagg agtctgatga cgacatgggc ttcagcctgt 420
 tcgacntgag acctcgcta 439

<210> 17809
 <211> 92
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E11

<400> 17809

cccacgcgtc cgcagacgcg tggggcacgg gcgggctgct ccgcaaggcg caggtggagg 60
agttctacgt catcacgtgg acgtcccca ag 92

<210> 17810

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E12

<400> 17810

tacgggtccga aatccgggac gaccacgcgt ccgatcagat cagttgagaa acagctagat 60
ttttcagcag atggactgga tacttctggt tctgagatta agaactctcc ttg 113

<210> 17811

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E3

<400> 17811

ccaccacgc gtccgcaaag cccaaagccg agaagccgcc gccgatcggg cccaagagg 60
gcgccaaggt gaagatcctg aggcgggagt cctactggta caacgggatc ggcaacgtcg 120
tcaccgtoga tcaggatcct aacacccgtt acccggtggt ggtgcggttc aacaaggtga 180
actacgcggc cgtgtctacc aacaactacg ccttggaaga gatcctcgag gtgaaatgag 240
tgaggccagt ctgggtcaagg accccatgct cctgtgtgat ttgtagttgt gaagtgaggc 300
tgctgcctag ctgctacgtt agctgctagc gtcacaacat caatcttgta atagcttaat 360
ctccacaatc atcatgtaat ttattgcatg cttcattcac cgtggactca ataattcttc 420
ttgctctaaa atcg 434

<210> 17812

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E4

<400> 17812

cggacgcgtg agcggacgcg tgggcggacg cgtgggcgga cgcgtgggcg gacgcgtggg 60
cggacgcgtg ggcggacgcg tgggggtcca ttacaacaaa agatcgtgct agtaagcaat 120
acgctcaatt tgagtttgag gtcgatttct ggagcattcg agttcttttc cagtaaactt 180
ttcaggttta agcgcggatt gatggcagag ctgctgtaga tttggagcat tttggggttg 240
gttttttgcg atttgaggat cgaatcgggc tgggtacaacc gcgtcacgt gcatatataa 300
ggcgaattgg cggtttggtg gctacaattg ttcggttctt atcttgaagg gtggtgcgaa 360
ttggaggatt cttcccgaat cgagaagggt taggccaaat tcgcaaggaa gctgcagcta 420
tccgcgtga 429

<210> 17813

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-015-Q1-E1-E7

<400> 17813

aactggttgg attgcacagc ttggtgggct acaatgtcgt aacttcccgg cgacgcaatg 60
ttggcaagggt gogtggtttc acatttgaca tcagctcagg tgctatggag tctctcgagc 120
ttgactcttt tgggctttcg attgtccctt ctagcttggt aagcacgtac tgtttatttg 180
tcgaagacgt gctggatata gtctctgata cagtcgtggt gcatgaagac gccgtctcac 240
gggttcaacg gttaacacag ggcattttgg gcactcaaaa catccacggg cctggtggtg 300
agattgacga gtacggtaga tttgggggga ggggaagggg gaggaggagg agagcanatg 360
gccagggaaa gtccggtggc cgagaactcc gcagcgaacc gaagcatccg gaggatgaat 420
gggagcttgc gatggact 438

<210> 17814

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E8

<400> 17814

cttgtattgt cccagcgccc ggcagctgcg ccctgctcca gctcatggcg cgtccctgcc 60
cctcccatgg cagctcccca gctcgatttc cctccctagc catggccgcg cccaaatcct 120
ctccctccct gtteggattc cgccagacct gcgtagctcc ctggtgtgtc ttctccctg 180
cgcgctcagc cagcgctcct gcgcgctccg cgggtgtcag ctctccagct ccggtgcccc 240
gctcgccagg gccgctgtg ctccagtgtc gcgctctgct cgcggcggtc atctccctgc 300
tcagctcgcc gcgcgaact gtccagcacc tctctgtcc tttcgttcct agcgcgtcga 360
gttgagcttg ccgatgatgc tttggctggt cagcctctgc tccagctcgc agttgctgcg 420
ttgccgag. 428

<210> 17815

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E9

<400> 17815

caggaacacc ttgccccata ttcaggtatt tatagggcat ggtccagtaa agaatactcc 60
ttgccctcga gctctaacca ataaccactg c 91

<210> 17816

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F10

<400> 17816

cacagacagt gaccataaac ccgtgagatg tacattcagc gtcgatattg caagagtaga 60
cgagctgata aggaggcaag agtttggaaa a 91

<210> 17817

<211> 92

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F11

<400> 17817

gtcgtccctg ccagcgttcg cgcgcgacggc gttcctgttc tgatcatggc gtcggcgctcg 60

gcgactcgtc gtcacccacg aggacgacga cg 92

<210> 17818

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F12

<400> 17818

cacacggttc caggcaggac attcagatct gcggcgacgt cggagagcgc cagatcttca 60

tgagctagaa catggcgacg ca 82

<210> 17819

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F2

<400> 17819

gaaaacttcg gttggttaat tcaattaatg ttttaatgaa aacttaggtg actgcagttt 60

aaacgactgc atctgtcatc ctgtgttggt tggatacatg gaactagtag tagtagtaaa 120

gtaaaattcg gtccaccttt tggtagaccg taaggatgaa ccaggatcaa aattctgtca 180

actaaactga ttgtatggcc gtcagacgtt ctgtgttttt gcactacttg gtctgacgag 240

aggatggacg gccaaggact ggggacacta ctacacaaag aaacaacaaa gccactgcag 300

aattctctaa cctatatctg tggaaaaaaa aactagctac actccggggc agatgcagga 360

tttagagact gtgtattcaa aatttagaat gggagttttc ctgataacgc ctcaaaaata 420

gaggaagaga acgcga 436

<210> 17820

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F3

<400> 17820

cacttggcgc cctatggaag agatagaaag gatattgttt cgttgcttaa tccaaatgta 60
tatgttatgt tcggcaaagt gtacacccga aggccagaa gggcagttga tcgaccaca 120
gtaggggtcg atgcagataa gagattaggg gaggattaaa tatgttcagt tgcaggattg 180
ttatgcaaca aatccagtc ttaaaataag gagtctgtta gctaagtctt aggagataag 240
tcgtaggatg tggagtctgc caggaggact cggactatât agtccttttg gttgtaatca 300
tgaatgtaaa gcaagtatta atctaaagaa gggattactc ttgcctc 347

<210> 17821

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F6

<400> 17821

ggctcgatta accacgagtc tcagctcaac tctgtacaat gatgaaacaa atgacaacac 60
tttcggggcg ctaaggcctc ctttggatta aaagataatt catgtgtttt tgaaccattt 120
cctgtgaaat tcatatacca tccccataaa attcctacat tcgaaaggaa gcctaaaact 180
cggctgagcc aggaactcgg ggaaatggga tggcgtctct gatgttgtct attccagtag 240
caaactgtac aagccgctca aatccaagac cgaaaccggc gtggggaact gatccatctc 300
gccgtaggtc cagataccac cagtagctct ccttggtcag attttgctcg tctagtcggg 360
cttcaaggta atcaagacgc tcttcctctt ggcttcccc aataagctca cca 413

<210> 17822

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F8

<400> 17822

attcctctga atttttcgtg gtgccgtgc tctgctcagc ctccagctcc cgcgcgggc 60
cgagcttcct ccagctagcc cctgcgctcg ccatggcagc cgctggtttc ggctccttgc 120
gcgccatggc cgccttgccc gtcccctagc actcgattcc tccaccagac atccctctc 180

ttcaacctcg ttgtaccact gcttggagtt tgcgagctc cctccctgtg tgggtgtcca 240
gccgagctcg ccccggtctc ttgcttctat ggtggatgag ctttctgtct ggcgcgctg 300
tgaagcccc tgggcgctc tccctcttcc tccctctgca tctccatgc ccgagtcgg 360
aatcctagtc ggcgcttccc tgccctctgc tcgatgttcc ttggcgctc tgctccagcg 420
tcgcgca 428

<210> 17823
<211> 93
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F9

<400> 17823

cacacgcgtc cgggcaggac atcaagaacc ccggcagcgt caaccaggac cccatcttca 60
agagctacag cctgccgccg cacgagtgcg gct 93

<210> 17824
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G1

<400> 17824

gatgtacaac acgccgtcgg cccaggagat gtctacttg gagcacgtgc agaggcgcca 60
cgaggagaag ggctgcctct acgcctgcat cttactgctg ctgtgctgct tctgctgcta 120
cgagacctgc gactgctgcc tcgactgctt ctgctgctgc tgcaactagc cgggggctaac 180
tccggaggac ggtcgagacg cagcagatgg aggtcgctc cgtctcttct acctacctac 240
caatctacct agtgatgatg attcagttcc cgtttagtct ggtgggtgtgc aagtgcaaac 300
ataataacgc acgcatgtcg tagcgtaata caggagagat gttttactct gtcagttcca 360
gttt 364

<210> 17825
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G10

<400> 17825

acgcctgccg gttccggtcg caaattcccg ggcacaagca gtttcaactgc acccaccgag 60

aacttggact atcagagctc ccagtagaag gagtgtaaat taaagatgaa gtggttgtgg 120

aagaggagtt tgctccagtg cc 142

<210> 17826

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G11

<400> 17826

ggaggcgtgt ccgcgcacct gttcgccgtg ttccagggtg tctcaagat gattgccggg 60

ctggacacca acttcacggt cacggcaaag 90

<210> 17827

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G12

<400> 17827

cacacgcgtc cgcccacgcg tccggttggc tgatacatat tactggatac gttaagagtc 60

aagttaaatg tgatgaagcc atgtataact gcat 94

<210> 17828

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G2

<400> 17828

catgcttgtc aatcttcttg ctccaactat tggtttacag ccgcactgg caagaaacgc 60

tggagctatt gccaaactttt tcgataactg ccttgataat actttccaaa ttgctatggc 120

tggaagggtca ttctcacttc tgcacaggat tggagctttt gtgacgaatg gtataaagct 180

tttggcagtg ggaactactg cttctttgat tggcactagt gtcacgaatg cagcgctcaa 240
agcaaagatg gctgttgata aggaccttga ggacgaagtc atggaaattc cagtcgtctc 300
aactagtgtt gcctatgggtg tatacatgtc catttctagt aacctcaggt atcagcttct 360
ggctgggtgtg atcgagcata cgatgctgga gccgttgctg cat 403

<210> 17829
<211> 472
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G3

<400> 17829

ctcgcggatc gacgcaagcc tctacagtca ctcgtgcgaa gacgaagaga gcagaagcga 60
agagcagcgg cgcaaaggaa agggagccat gctcgcctcg ccggcgctcg ccggcgccca 120
ctccttcgag gcgtccgtgt atggaaacat cctcgtcccc tcgctcccg tccccgcgcc 180
ggcacgtcgc gcggcgctgt ccgtcgtcgc caaggtaag gtggccactc cccaggacga 240
ccgcacgccc cgccacgtcc gcctccgcaa gaaggtaagt ggcaccactg agaggccgag 300
gttgagtgtt ttccgctcaa acaaacatct gtacgtcaa gtcacgacg acacaaagca 360
atgtactctg gcttcagctt caaccatgca caaatctctc tccaaggaat ttgaatactc 420
agctggggcca acgacgaga tagcacagaa gatcgggtgag gtgattgccag ag 472

<210> 17830
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G4

<400> 17830

gtcagaggggc cacaaggacg acccctgtgt gatctggctc acgggcgggc ccggctgcag 60
cagcgagctc gcgtcttct acgagaacgg ccccttcaac atagcggaca acttgctcgt 120
cgtctggaat gattttggtt gggacaaggc atcaaattct atctatgtcg accagccac 180
tggaactggg tttagttaca gtcggattc gogtgacact cgccacaacg aagctactat 240
tagcaatgat ctatatgatt tcctgcaggc cttttttgct gagcacccaa agtatgctaa 300

aaatgatttc ttcataactg gggaaatcata tgctgggcat tacattcctg cctttgcaag 360
tcgtgtgcac cagggaaaca agaacaatga gggcattcac attaaacttta aaggttttgc 420

<210> 17831
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G5

<400> 17831

aaaacgcgct ggagcggtag gacgaagcgg cgttctcgca ggtggcgctg acagcgcgcg 60
gcgcgcgcct ggccgccttc acgtacctgc gcatgaacaa gacgctcttt gacggcgaca 120
actggcggca gttcgtgtcc ttcgtcaggg ccatggcga cggcggcgcg agaccagcac 180
tgccacggtg cgacacgggg cactcggacc tgtacgtcgg gttcctcgac gccgccaaga 240
agagcaaggc gccggaggct gagggcgccg ccaccgcgc ggcattgtag gtggatgctc 300
atgcctgtgc gtgcacacag acacatgcgc cgtgctgttg tataacgtgc accggagaac 360
gggaactgta tgtatagatt cagggccttg caggttgcag agttttatac gctgtaatcg 420
agcaggtcgg t 431

<210> 17832
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G6

<400> 17832

ggcaggatca cctgcatgac gtttccccgg gactggctgc ggagggacct gagcgatc 60
ggcttcgggc tcatcggctg gatggggccg tccagcgctc cggccatcaa cggcaacagc 120
ctcagggggc tcttcttctc cagcatcggc caggagctgg ccacttccc cagcggggcg 180
cccgtcacct ccagttctg gctgtggcta gtgacgtggc acctgggcct gttcatcgtg 240
ctcaccttcg gccagatcgg attcaaggc aggaccgagg actacttcga gaagtgaagc 300
ggttaagatc ctatccatca tccttggtgc tgcgctgcgt tgcgttgctg gcgtgctcgc 360
cgctatcgaa cctttgctgt atagggttcc gatttcgctg aatgtaatgt atgatgctac 420

<210> 17833
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G7

<400> 17833

tgaggatgac tttgaccag atgagatatt cagaaacttc ttctttggcg gtatggcgcc 60
 tgcaaccacc aggcagtttg gacagtttgg aactttccat tttaggactg gtgggatgca 120
 tgcccatgcc catgcccaac aaaactctgg tggctcaact gtcaggatgc ttattcagct 180
 gttgcctgtc ctactgctgc tgttgctcaa ctctctgcca tctctgagc ctgtctactc 240
 gctgtcccg tcataccctt atgagcataa gttccaaacc ccacgtggag ttgcatacta 300
 tgtcaagatg tctaatttcg aggagcagta tccacaccaa agcaactgagc gagegagcgt 360
 ggagcggcat gttgagaggg attattactc cataatcaca cagaattgca gggctgagct 420
 gcagcgtcgc caatgggg 438

<210> 17834
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G8

<400> 17834

cagacgcgtg ggcgctaact tgtaatctgc aggatctaag caaagacttg atttagttat 60
 ggacggattg gtaggcctct tgaaagtctg cgtgggtccg ggtatcaacc ttgcctaccg 120
 cgacgcaaga ggcagcgatc cgtatgtcgt cctacggctt ggcaagaaga aactgaagac 180
 aagcgtgaag aagagatccg tgaaccccat atggcaagag gagctaactc tgaccgtcac 240
 agatcccagc caaccactga agctggtgag tgagcagcaa gcagaacgat cctgtttgtg 300
 attcattatt ctagactgtt tgctacagga ggtgttcgac aaggacacct tcagcagaga 360
 cgaccccatg ggagacgcgg aggtggacgt ggcgccactg atggaggcgg tgagcatga 419

<210> 17835
 <211> 123

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-015-Q1-E1-G9

 <400> 17835

 gtcgccaatt cacgggttac accacgcgtc cggggtcaga gaacttctac agtgcctttg 60
 aggctgagct tgcagatgcc atccctgtgg tcaagacctc tattggtggc actagaataa 120
 tag 123

<210> 17836
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-015-Q1-E1-H1

 <400> 17836

 gcagaagcca acatacgtgt gtcaagggtg agatccgatg agtctagtga agaagagaga 60
 acaaaccggg agagcggagc tcctcttggt actataaggc gacctagatt ttcgagaaga 120
 tgatatatcc acatcctcag ggattttttt aattgtttgc agctatgccc taatgtgaca 180
 acaattgttt taagggaatg tgtatgcggg atgcggctat catgcataat ctacattgcc 240
 atggccgaga tgtagttcaa gtgtcactaa ggatgctaga aaacataatc gagaaggcgt 300
 atgcatgtag cattcagagt tcagtggcta aattagattt tcccaacttt tgtgcc 356

<210> 17837
 <211> 90
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-015-Q1-E1-H12

 <400> 17837

 cacacgcgtc cgaggagagt tcccatgtcg cactgaatca aagttccgag ttgcggttgt 60
 gcgattgtac ctggtcaatg aatgggaacc 90

<210> 17838
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-H2

<400> 17838

gtggggaacc atgcatgggg cgttgacaac tcgactctgg agaacctatt cagtgagcaa 60
ggacaggtgc tggatgctaa ggtcatctac gacagggata gcggcaggtc aaggggggtt 120
ggtttcgtca cctatggctc tgccgaggag gtcaacaatg ccatatcaaa ccttgatggc 180
atagacttgg atggtagaca gatccgagtc acggttgcag aatcaaagcc caggcgtgaa 240
ttttgagatt ttgttaaggt ggtttacagg tcaatagcgt gtgttcacaa gttctagttt 300
ggagcgtcta gtctttcttc cgtatgagta aaaaaagat gctgataatg agagactggg 360
agtgaaactg ctgtccacag gaagatattt ttc 393

<210> 17839

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-H3

<400> 17839

caagggcatc atgtcagtgg agagaagaag caagtgtgtc atgttagccg gccatttctt 60
aacaatggac caaagcaccg tccattgacc cccatgaggc gatgccgtgg tgtagcatgt 120
gtagtgatta tactgtcaac agcattcctg ttggtagttt acttggtctc tattactact 180
tttgctgtgc ggctgttcag tgtgcattac agccgaaagg cgacttcctt tctatttgga 240
atgtggttat ctttatggcc gttcttgttt gagaagataa aaaaaaccaa ggttgtcttc 300
tccggtgaaa atgtgcctcc aaaacgacgt gtattgttat ttgctaacca caggaccgag 360
gttgactgga tgtacttgtg ggatcttgca ctgaggaaag gccatttagg atatatcaag 420
tacatact 428

<210> 17840

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-H4

<400> 17840

gtactgatgt taatgtctaa atttgaagga ctgatatcgc agtcatctct ggagaggcga 60
tctgcatcta agtattacat attcttggtc ttcaatgtat ttttggggag cgtaattgca 120
ggatctgctc tggagcagct taaaacttat ctccatacat cagcaaacga cataccaagg 180
atcattggtg actccatccc aatgaaggcg acttttttca taacatatgt gatggttgat 240
ggttggactg gaatagctgg tgaaatattg agactgaagc cgcttatatt ctccatctg 300
aagaactttt tcttgggtcaa aaccgaaaat gacagagaag aagctatgga ccctggcagt 360
atctgctttt actcaactga aact 384

<210> 17841

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-H5

<400> 17841

aggacgcgtg ggccgactcg tatgggaatc tgcagtcatc ttccatgtga ccacgaaaca 60
cgggggcaca ttcgacaaca tgtggaagct cacctagcag gcgcattgct cgaattgttg 120
actgcatctt gccaccaggc tgtttcaggc catcaatgaa cagttaccca tagtatccta 180
caactgaattc ttagaacttg ctggagtcgt ggtaatcgat gtaaccgggg gatctgacgt 240
acccttccac cccaggaggc aagatatccc tgacgctcca cctgaagggtg gtcttcctga 300
tgccacctaa tgttctgatt agctcaggca gtttttctcg acacagatgg gtcttgatgaa 360
ccaggacat 369

<210> 17842

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-H6

<400> 17842

accgcacgac acgacaccaa gtcgaggagc tcgagagggc accaataatg gccggcgtga 60
actccagcgt cgtcgggctc aagcccggcg cggcagtgcc gcaggccgcc gccgcctcat 120
cgccggcgaa gcgggtgcag ctggccgcgc ccgagggccg ccgcgccgct ctgctcggcc 180

tggcgggcgt cttcgccgtc acggccacca cggggtcggc caaggccacg atcttcgatg 240
 agtacctcga gaagagcaat gccacaagg agctgaacga caagaagagg ctgggcacca 300
 gtggagccaa ctttgcgcgc gcctacaccg tggagttcgg cacctgccag ttccctaca 360
 gcttcactgg gtgccaggac ctcg 384

<210> 17843

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-H8

<400> 17843

agcaciaacg cgcacgtca tacgcaaacc acacaacca tggaagcgtc ccttgccgcc 60
 gccgccgtcg gcttgttccc tccaccgga atccgcattc gaatcaccaa atcgagtccc 120
 ctcccacgcc ctcggtgctt ccaatccgga cctccaaga tctggacctc cggttcgcgg 180
 gcatgcctgg tcgcggcctc cgcgtccaca ccgcgggcgc cgggaggcgg cctctactcg 240
 gcggcgacgt acgagctgac cccgaaaaac gtagaccgcg tcttggaaga cgtccggcgg 300
 tacctcatct ctgacggggg caacgtcacc gtctgttgcg tcgaggacgg tgtcatctcc 360
 ctcaagctcg aaggagcttg cggcagctgc cccagctcga cgacgacgat gaatatgggc 420
 atcgagcgt 429

<210> 17844

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-H9

<400> 17844

tccgggttaa accacgcgtc cgcacacgcg tccggtagcc gccaccatga gccgctcggg 60
 gcagcctccg gatctcaaga agtacatgga caagaagctt cagattaagc tgaa 114

<210> 17845

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-A1

<400> 17845

aaaggacata atggatgtac acgatgacct ggatgtgttc cttcgtaccg agacccaggg 60
aaacaaatat ttggctgtga gcattacaaa agaaactgca agcttggtgc tgcattgtgc 120
aataagctat tcacttgcag attctgtcac gataaagtaa ctcaagaggt ccacttattg 180
actcttatga ccatgtaatt ggtgttaata caactacatt aacatgtaaa ggttggtaga 240
tctggaaagt cttgatggtc taatacctat ctatgagtac cgaagaaaag gcgggaaaag 300
tcggtctctg cagcatcgcg cgtgaaaaa 329

<210> 17846

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-A10

<400> 17846

catggtttca ctaccggtgc ctccacaaa ctttgatgcg acaaaagatg aagcccctta 60
ttcatcaaaa actgtacctg ag 82

<210> 17847

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-A11

<400> 17847

cccacgcgtc cgcagctctt ttgttacttg cgtacaaggg gatggactaa tcatatcaac 60
tacatctgga agtacagcat attca 85

<210> 17848

<211> 80

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-A12

<400> 17848

cccacgcgtc cgcggacgcg tggggcaaag gcagcacact cagctatcca gcaaaagaga 60
tcgagaggca ggagtcattg 80

<210> 17849
<211> 347
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-016-Q1-E1-A3
<400> 17849

gaaggatgga catatgttgc attcgatctg aatcctgttg ttgtaaagtc agctagaaaa 60
tcaggatttc ctgtgctatt cggagatggg tcacgccctg cagttctgca atctgctggc 120
ataacgtttc caaaagctat catggttatg tatactggaa aggaaaaaac aattgagtct 180
gtaagcagat tgcgtcaagc tttcactgcg gttccgatat acgctagagc tcaagacctc 240
tcacatttgt tagatcttaa gaaagcaggc gcaacagacg ttgtcctgga aaatgccgat 300
accagcttgc agctaggttc aatacttttt aaaggactgg gcgtcat 347

<210> 17850
<211> 412
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-016-Q1-E1-A6
<400> 17850

ccatcttcaa gagctacagc ctgccgccgc acgagtgcgg ctaccggggc agcgtcttca 60
accgcgtcaa cttcgcgccc acgctcgagg ccaaggagaa ggagctcgcc aacgggaggc 120
tggcgatgct ggcgttcctg ggcttcctga tccagcacia cgtcaccggc aaggggccct 180
tcgacaacct gctgcagcac ctgtctgacc catggcacia caccatcatc cagaccttct 240
ccggttgagt cgaggctgag gaggaatacg atccatcgct ggtgagtctg atatggactg 300
gaagacaaac attgaaacct taagttcctt tctggatcag tttgtgtgtg ttaatctatc 360
tggaggggtac agattcgggc cgtgttgcaa tgcattgatg gtctgaaggg ag 412

<210> 17851
<211> 86

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-A9

<400> 17851

cacacgcgtc cgggagaagg cgggttgaagt gtaccagagg atgaagaagg agcgctgcag 60

aactaacacc gagacctaca ccctga 86

<210> 17852
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B1

<400> 17852

gcgcgacgga aaccccaaac ccaacctcat ctcttttctc ggctctacc gccccctcga 60

tcggtcggcc ggtcagctat gacgccggga agctcggccg ccggatccgg cgtcatcggt 120

cctcggaaact tcaggctcct agaagagctt gaacgtggag aaaagggcat tggagatggg 180

acagttagct atggaatgga tgacgcagat gacatctaca tgcgatcatg gactgggact 240

attagtggcc cccataatac cgtccatgaa ggtcgcatct gacagctgaa gttgttcct 299

<210> 17853
 <211> 81
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B11

<400> 17853

tgcagatcct aataacttta tgtgttgtga caaaccaact ctcattggac gacaaacata 60

taccaaagtt acaaggctag a 81

<210> 17854
 <211> 81
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B12

<400> 17854

cagacgcgtg ggcttgcccc tgtggtcatt ggtgtttcaa tggcatccct tactgagctt 60
tcattcaact ggactggctt c 81

<210> 17855
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B4

<400> 17855

tcgacacacg cctccgggat atgtcaaagt aattctagca acaaatcgta ttgagagtct 60
tgatcagacc ttgcttcgcc caggctgaat tgacagaaag attgaattcc ctttacctga 120
tgtcaagact aggcggcgca tcttcagat acacacatcg aaaatgacac tggctgatga 180
tgtaaacctga gaagagttta ttatgtcaaa agatgagttt tcaggtgctg acatcaaggc 240
catttgact gaagctggct tgcttgcttt gagagagcgg cggatgaagg tgacgcatgc 300
agacttcaag aaggccaaag aaaaggttat gttcaagaat aaagaaaggg tgccggaggg 360
cttatatatg tgagactcat cagcagcgtc attaggtctt agtgagagaa ctggcgcttg 420
taat 424

<210> 17856
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B5

<400> 17856

cccacgcgtc cgaccggaat tcttgcttca atgtacctct tgcttgctga taaaagtcct 60
gctgagactg gagcagagat ctgcataaac tacggcaaca aaggaaatga ggaactactg 120
tacctttatg gatttggttg tgacaacaat cctgatgatt atctcatggg tcattatcct 180
ttggaagctc ttagacagat ccagtctgct gatataaaaa tgaagctact agagatgcag 240
aaggggagaat tgaggtgcct cctaccaga agtttgcttg ataatggatt ttttggtatc 300
cgttctagtg aagataagga tagcaagaaa aatactgggc cgttttcaag ttttacttgg 360
agtgggtcaac gcaaacttcc atcatatctt ccaaaaattg ttttcgctca tg 412

<210> 17857
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B7

<400> 17857

gacctccgag aacccccgacc tgtatgggcc attttggaca tgcaccaccc tgattttcgt 60
 tgctgcatct attgctactt ttgtcaccta cctatcccac aaatggcaca agaaggaatg 120
 gaactatgat atcaacttgg ttacctgggc tgctgggtta ttctatggct acgtgacatt 180
 tgttcctctt cttttatatg ttattctcaa gtacttgta gcacctgctg gtttggtgca 240
 attgtggtgc ctatatggat attctctggt catattcatt ccagcatcgc ttctgtctat 300
 tgtgccaaata gaaatattca gatgggtgat tgctgggtgt gctgggttca tgtctgctac 360
 tttcgttgct gtaaattcccc gcgcacacat tggtaattcc ggcgagcga 409

<210> 17858
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B8

<400> 17858

accacgcgtc cgcccacgcy tccgggcac cttcttttct acggcggcca ctgctgcagc 60
 gatttcattt acagctggaa ctactggaa gaggaagaag acacctcgaa gcaaactgac 120
 gacagccagg gtaacctcgt gctaactggg ccatcaatgg ccacctcggc agaaagtcca 180
 attgccttca ctttctacct ccatgatggc agcccgcaag ccggagaagc cgctgaggac 240
 gacgaggaca tcgggaggat aatctgcgac tgcacggcg acgacttctc caactacaac 300
 agggccatag tcgagactgt ccaaattggc tatggcctcg ctgaagtgat ctatgccgtg 360
 ctgaacaacg gggccaagg ccgggtcgct gtcaaacttg ctgcctgcc ggtg 414

<210> 17859
 <211> 84
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B9

<400> 17859

cccacgcgtc cgcccagcca ggggtgtaca gggtttatta catcattaat aatattcaag 60

agtttagtaac cgctctgacc caag 84

<210> 17860

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C10

<400> 17860

aacgcttata tcttgtcagc catggcgacc gccgccacgt ctaacctcct caagtcctcc 60

ttcgcgggct ctcggctccc g 81

<210> 17861

<211> 104

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C11

<400> 17861

tcgcggggtcg acacaagcgt ctaaacagac gttctggaac agattgcgct gtcacataat 60

tacttgtgct ctaagccttg atccaaatcc acacacattg atct 104

<210> 17862

<211> 57

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C12

<400> 17862

ctccgcaagg tgaataatcc agcaactgctt atcaagtcct agatcttgac tgtattg 57

<210> 17863

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C2

<400> 17863

actcgcgggt cgacacaagc ctctagaatg agtcgtatta caactccggg atcttagagc 60
tgaggctgga gcggccggaa gtcaagaacg ccattaattg ggatatgatg aggatgctgc 120
ggagcgccat agagaagatt caggccgaca cgacggcgaa tgtcgtcctt gttgcgagct 180
ccgtgccggg ggctttctct gcaggcgccg atctcaagga aaggaggcta atgagttctt 240
ctgaccttgg ggggtatgcc agatccttga ggtctacatt ttcgtctttt gaggcacttc 300
ctattccaac aattgctgtc attgaacgag ctgcccttgg tgggtgggcta gaactggctt 360
tggcgttcga tcttcgaaga tgtggagaaa atgctgaact tggactgcca gaaacaaacc 420
ttgctattat acctggagct gg 442

<210> 17864

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C3

<400> 17864

cgtcgcaagc ctctaaagtg atgtcatatc tatctgaggc ctaaggccta cgctgagaac 60
ttcaagtgga gaggccctcc gaaagcggag caagcatgag ctcgagacat ctgtgatgct 120
gacattggca cgatgtcgtt ttcctcctgg ctcgatttta ttttgctttc aaccgtgccc 180
attgttaaag taaaaactag agtatgcac tatcaaactt gtaataagca tgatgtgcaa 240
tcaaacaaaa tgggtgtactt gtacttccaa aacgttaatt cgtggatgac attgcatttg 300
caaaaa 306

<210> 17865

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C4

<400> 17865

cacacgcgtc cggaagaaaa ccaagatcga tgctccgtct gagctgtcgt cggcggggccg 60

ccctcaccgg tcgttctctc ctcctctcgt ggctgccgag catctaccgc ctcggtctca 120
 ccccttcttc atcacacacc atgagagtga tgcatacaaga agagatccta gctgggcagc 180
 agcagcagca tggaagggtga ccgcagctgc acctcctcct cctaccacca ccctgttgcc 240
 gttgccgctg ccgtcgacgt cgtccgctgc agcatcatca ggattctcca ataccgccac 300
 gacagctgcc gccgccccat cggccgctc ctcgcccggt ttgacccgc cgccaccgtc 360
 gtcgtcctcg tctctgagcc atcagcagca ccaccaccgc cgtgagaat cgaaggaagc 420
 cac 423

<210> 17866

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C5

<400> 17866

ctcgtgggtc gacacaagcc tctataatga gtcataatag cttgatgttg gtcatacatt 60
 gtgatcgcta tgtaatacag cgaggggtgg gacagtacat tggtgaaagc cttgagaaga 120
 cacttgctag gtcaagggtgt cccaagggtc gtctgtgtga ctacttcccc aaatcgttta 180
 gcaaacagga cgaagtctcg tcatgggtgtg gatggcatac tgactatgga tttttgacag 240
 gacttacatg tggcttgctc acgagaaaat cagaggaggt cccctgtcct gatattggaa 300
 ctgggctgta tgttcggact cgtgataatc aagtcgtcaa ggtcacactt gtggatgatg 360
 agttggtcta ccaaattggg gagactgctg aaatactatc aagagggcat ctatgtgcaa 420
 cccacactg tgtgaag 437

<210> 17867

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C7

<400> 17867

agacagcaga tgcagtgttc gattgcattg gtgacccgcc agaagtgcgc ttcgatttgg 60
 atttctgcgc caagttgctc aagaaacaat atgtgagctg aaagggggct agtgcaagtg 120

atataccaag tacgagggttc ctgaatatgg agaaagagtc catgatggca tgccaatggt 180
 gggtcttcaa gccatgacct gatactagga cttggaagtc cacgttctac ccaattgtaa 240
 cttatagaat ggcatcact actgccacc cagttggcag ttgtaaatgt gttagtcatt 300
 caacaaactg gaaaccactc gaataaggga tcaccaagtc caaactcttc agtcaaagca 360
 atagtaattg aggttacgag tcg 383

<210> 17868

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C9

<400> 17868

gtgaggatgc ttcaaattgga agtggtgatg tgtgggacga atcacttgag gctccattct 60
 gaatggcgtc ttgctgcatg aa 82

<210> 17869

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D1

<400> 17869

ctgctaaaag gcatttgaca cagcgcattg aaaagttgga cgataaattg gatcagcaga 60
 aggctctatc tggacaaata agagatgatg tcaactgatgc acgtctgaag cttgagaata 120
 ttggttcaga aatcaagaac atcaaagaat tgggttgggg tctggatggg aaaattgatt 180
 caatggaagc taaacaggac ttctcatgtg ctggtgtgat gtacctctgc caattcatgg 240
 agcaaaatgg tggaaagctt ccggatcgcc tggaatgctc caaaatgacg acaaaacgtt 300
 ttggaggcca aaagttctta cagggattgc aactggcaat agaatcaggg aattgtggca 360
 atgacaccat tgatatgctg ttgaaagatg ctgattcctc tgatagaata aac 413

<210> 17870

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D12

<400> 17870

ataagttgtc agttgatccc tctccaataa gctaattaaa ggccggtctc aacccccctt 60
gaactcattt t 71

<210> 17871

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D2

<400> 17871

gtcgccgcca tgcttccggc gagatggacg tggatgaaggc ggccgagttg tcggggcgga 60
cgctggaacg ggtagtgggt catcccttgg tgctgctcag catcgctgac cactacaacc 120
gcgtcgcccg cgacaccgcg aagcgcgtcg tcggcgctct cctcggcacc tcatcccgcg 180
ggtccgtcga tgtcaccaac tcctacgccg tgccgtttga ggaggatgac aaggatccta 240
ggatctggtt ccttgaccac aattaccacg agtcaatgtt ctccatgttc aagaggatta 300
atgccaagga gcatgttggt ggctggtaca gcactggccc agagctaacg gagaacgact 360
tggatgtcca tgcattattc aacagttatg ttc 393

<210> 17872

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D3

<400> 17872

gacccaagcc tccggactcg ttcgcggggg tcggcccggg gctagggctg ggcggcggcg 60
gcctcgggat gtcggccgcg gaagccgcgc tggcgctgga ggagcgcgag atgccgcctt 120
gcccaccccg cctccgccag tacgagacca tggctgtgct ccgccccgac atgtccgagg 180
aggagcgctt cgccttcac cagcgctaca aggagctgct cgtcgccggc ggcgcatgt 240
acgtggaggt cttcaaccgc ggtgtcatcc cgctggcata catcatcagg aagaggaaca 300
gccgcaccgg gctgccgtcc acctactacg acggcatcta cctcctcatc agctacttca 360

gcaagccgga gtccatggga cgccctgcag cttaaagctca atgccgagga cgac 414

<210> 17873

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D4

<400> 17873

actcgcgagt cgacacacgc ctctacagtc actcgtgcga tcggcgtgcc gcgtgcgtga 60
ggtgatcgga gcatcccgtc ccgaggagga agacaaccgg cgacgcgggg ggaacatggg 120
gaagacgccg gtgcggatga aggcggtcgt gtacgcgctg tcgcccttcc agcagaaggt 180
aatgccgggg ctgtggaagg acatcaccac caagatccac cacaaggtca ccgagaactg 240
gatctccgcc acgctcctcc tcacccccgt cgtcggcacc taccaatacg ccatgtggta 300
caaggagcac gagaagcttt ccacagata ttaaagtcgc tgcccttgac agacagcact 360
cggagttttc atgatgggtt tcataatcct cccatgatga ttttacactt gtttgatcaa 420
tttcagttca acgccttttc cacttc 447

<210> 17874

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D5

<400> 17874

ctcgcgggtc gacacaagcc tctagactga ctctattac gatgcctttg tagcgtgct 60
gcctcgccgc gtcgtcgcg gtccccgatt tccgcttgct gctgcgcttc caacaccatg 120
gacggcgggg gatccggcaa tgctccggc ggcagcggcg gcgcatcgac gtgctgctac 180
tacgcgctcc tcggcatccg caagaacgcc tccgccaccg acatacgcg cgcttaccgg 240
aggctcgca tgaagtggca cccggaccgg tgggcgagcg accccggcg ggccggcgag 300
gccaatcagc ggttcagcg gatccaggag gcatactccg ttctgtcgga caaggggaag 360
aaggccatgt acgacgccg gctcttcgac cccctcgacg acgacgacca ggatttcccc 420
gacttcatgc aggag 435

<210> 17875
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D6

<400> 17875

```
aggacgactg ccg'cgccgac taccgcaacg tcatggccgc tgccgtgcgc ggcgactacg 60
acacgtgcgg cctgtacgcc gaccagctga agcggcggtc cgcgagctg ttcaaggagg 120
gtgtccttgg cctggagcac ctcgccgcgg tggacgcctt ctgcgagctc gtcgcccgcg 180
gcatggggcg gcccagagccg ccgcgcacct accacatcaa cctgtccgtg ttcacctccc 240
tgccggacat gtggggccatc gggcagcagt tccccatcat cccgatccag cggctgcagg 300
agcggcccg cgtcgacggc gtgctctcgg acctcacctg cgacagcgac ggcaagggtga 360
gcgagtcat cgccgggagg gacagcctgc cggctgcacg agctgcccac cc 412
```

<210> 17876
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D7

<400> 17876

```
acccgcccta cgacctgacg tccttcoggt tcagcccat caaggagtcc atcgtgtccc 60
gcgagatgac ccgtcgctac atgacggaca tgatcaccta cgccgacacc gacgtcgtca 120
tcgtggggcg cggctccgcg gggctgtcct gcgcgtacga gctctccaag gaccccgccg 180
tgagcatcgc catcgtggag cagtcggtgt cgccggggcg cggcgctgg ctgggcgggc 240
agctgttctc ggccatgggt gtgcgcaagc cggcgacct gttcctggac gagctgggcg 300
tggcgtagca cgaggccgag gactacgtgg tcatcaagca cgccgcgctc ttcacgtcca 360
cggatcatgag cctgctcctg gcgcgcccc aagtgaagct gttcaacgcc g 411
```

<210> 17877
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D8

<400> 17877

agatcgggtgg ttccaaccgg caaaagagag atgatggtag ggaagagga gcgggactgc 60
aagaacccga tgcggcggac gacgagcatg acggagttag cgccgccga cgcgctcgcg 120
gcggtgatgg aggacgagga gggccccag ctgtccgacg acagcagccg tgacggcggg 180
cagcacgact ggctgtccgc gctcggcggc ggcggcggcg gcgtcggggg cgccgcggcg 240
caggaggact ggctcgcggc gtaccacgcc cgcgcggcgc cggcgcgggc ggggctccgc 300
cggaactcgg ccgactactc cgccgtcgag accgcccggt tcctgcgcgc ctgcgggctc 360
tgccggggcc gcctcgggccc cgggcgagac accttcatgg tgacgggcca cgc 413

<210> 17878

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D9

<400> 17878

gcgagggcgc gtcacgtgc gcatgctctc cccgatgtcg cacttcgaga acgggacctg 60
ggaccacggc ggcgactgca gg 82

<210> 17879

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E10

<400> 17879

cccacgcgtc cgcaacacaa taatgtaaca agcatcagcc cagcccagcc agcttccatt 60
cccaaggaaa ccctccgctc c 81

<210> 17880

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E11

<400> 17880

cacacgcgtc cgcacaacag taatgtgaca cgtatcaccg caggccaggg accttcatt 60
cgcaaggaat ccctctt 77

<210> 17881

<211> 80

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E12

<400> 17881

aaaacatctt cgacgctaaa gccgggattg ccttgaacga ccacttcac aagctcgtct 60
cttgggtatta caacgagtgg 80

<210> 17882

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E2

<400> 17882

caattcgatt ctggagactt ctcaaaagtc gtggaatata tcaacaaaat tgtgctggtt 60
ttttctccag gttgcttaaa ggcaaagctt ctcaaggcta aagcattgct agcactgaaa 120
gactactcaa gtgttatttc agagaccgga ttcattctaa aggaagatga agacaatttg 180
gatgcactgc tattacgtgg tcgtgcctac tattaccttg ctgatcatga tgtggcctcc 240
aggcactacc agaaagggtc tcgtcttgat ccagagcatt ccgaattgaa gaaagcatat 300
ttcgggttaa aaaatctttt gaagaagagc aagagtgcag aagataatgc tgccaacggt 360
aagctacgtg tgtctgttg 379

<210> 17883

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E3

<400> 17883

gggggccttgg ccatcaatcg cttgacgagc gagcgagcga gtccatcgcc aagctgggga 60
 gctttaacct gccgaagagc gtgtgggttc agtcgtcttt cctccctctc catctgtagg 120
 tctgcgctcg ccgcctcgtg cagtgttcgt gtgccctgcc gctgttctgc actagttcta 180
 cccgtcattt ccacccttcc gcttgctggc cgagtccgc gcgcgtgcag gtctttccgc 240
 aatctcaccg ggtggcgggt gcttccctcc ttcctcgccg accctgtggc tttgcaacga 300
 ggaaggtgaa atttgaatgg aaatcgcgac gggagcgata agcgactcc tgcccaagct 360
 gggcaacctt ctcaaagagg agtacaagct ccagaggagc gtcagggatg atatca 416

<210> 17884

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E4

<400> 17884

gcatcctcaa ggagctgaag gacctgcaga aagaccccc ccatcatgc agtgcaggtc 60
 ctgctgggtga ggacatgttt cattggcaag caacaattat gggaccacct gacagtccct 120
 atgctgggtgg tgtttttctta gtgaacattc atttcccgcc agattacccc ttcaaacctc 180
 caaaggtttc tttcaagaca aagggtcttcc atcctaatat caacagcaat ggaagtatat 240
 gccttgacat tctcaaagag cagtggagcc ctgctttgac aatttctaag gtctgtctct 300
 ccatctgctc cctgctgacc gaccccaacc cggacgaccc tcttgtcccg gagattgccc 360
 acatgtacaa gacggaccgg ccgaagtacg agtcgacggc ccgcagctgg acgc 414

<210> 17885

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E5

<400> 17885

ctgcggggtc gacacaagcc tctaaacaga cttctattat gaacgaaaca agtactgtct 60
 gagctccaag atacccttg gagtagtttt ggcaatcccg ccgttcaact atcctgtcaa 120
 cttagcagtt tctaagattg gccagcact aattgcaggc aatgctcttg tgctaaagcc 180

tccaactcag ggcgctgtgg ctgcacttca tatggtacac tgcttccacc tggctgggtt 240
 cccgaaaggt ttgatcagtt gtgtgactgg gaagggttct gaaataggag attttcttac 300
 aatgcacctt ggagtcaact gcataagttt tactggtggc gatactggta tagccatttc 360
 aaagaaggct ggaatgggcc ctcttcagat ggagcttggg ggaaaagatg cttgcattgt 420
 gctagaggat gc 432

<210> 17886
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E7

<400> 17886

aacacgcgtc cgcggacgcg tgggcggacg cgtgggggtc catcagccct gatgctgatg 60
 gaaacaaagg cttggtctcg tactgagatg taacgccaca acgatttaca tgcgccaaga 120
 accatctttc ttgctagttt agcgttatgt acgcttttgt aatggcttct aaacttgttt 180
 ttttgatgta gctgtacatt tggatgtcct gttagacgtg agatgtgttt tacgtcagat 240
 atttagaact acttctgagt cagtataacg cgaatagtgc tatgcgttct taggtcgagg 300
 catgaatgtt cgagtgtggt tttgggtaaa actgaaacgt gttggtcatc tctgttcaac 360
 agactttctg ttgaaaacgg ctgagcatgg tgatatacat gtacgcaa 408

<210> 17887
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E8

<400> 17887

aaataatgtt cggaaagtta tcgtggtttc atccacagct gctgtccatt ttaatccgag 60
 ttggccccaa ggtataatcc aagacgagag ttgctgggtc gataaatttt tttgcactaa 120
 gagtgaggaa tggtagattg ctgccaagac aattgctgaa tatacagcac tggagtatgg 180
 agagaagaat gggctactcg ttgttacagt ttgcccttgt gtcgttttag gtcgactcct 240
 gcagcctcta atcaacacca cgagtgaagt attcgtctac attataaaag gaggtcctag 300

aacgatgagt aacatcacct ggaacagcgt tgatgtccgt tatgtaaccg atgctttgct 360
 tttggtatat gggaaagtgg aagcatctgg gagagtcatt ttgggcagca aatcg 415

<210> 17888

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E9

<400> 17888

cagacgcgtg ggggcctcaa caaggtcgcc gggaaggtct tcaggatcgg ccatctcggc 60
 aacctcaacg agctgcaact t 81

<210> 17889

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F10

<400> 17889

gacggcgtg accacacgcc gccgagtcgg gcgaacaac cgctgtagt tccagagtag 60
 tacctcatgg cggccatc gtc 83

<210> 17890

<211> 102

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F11

<400> 17890

tcgtgggtcc acacaagcct ctaaaggaag tcttactagt gacatttggg caacctcgga 60
 ttggcaatgc tatatttga tctaatttca gaagatattt gc 102

<210> 17891

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F12

<400> 17891

atctgatgtg gtcattggcga ttgttgccga cgtcatgctt gtctatcttc ctgctccaac 60

tattggttta cagccgccac tgg 83

<210> 17892

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F2

<400> 17892

gaggcgaacg acaagccagc ggcggcgctc gggagcgcgt ggtacggccc cgaccgcgtg 60

ctgtacctgg gccactgtc cggcgagcca ccgagctacc tgacgggcca gttcccgggc 120

gactacggct gggacaccgc ggggctgtct gcggaaccgg agacgttcgc caagaaccgg 180

gagctggagg tgatccactc ccgctgggccc aagctgggcy cgtcgggtg cctcttcccc 240

gagctgctcg cccgcaacgg cgtcaagtcc cggcaagccg tgtggttcaa aggcgcgtcc 300

cagattttca accaggggcy gc 322

<210> 17893

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F3

<400> 17893

aacacgcgtc agcttgagcg tgtcaatgaa gtcaggcagt ctgccggttt gcaacagctc 60

gaggaggata tcgcttcgct tgagaacaag tccagtata gttccttatg ggatgacct 120

tccaaggcac aggggatact tgtttctctg acagaggcca aagacaaagt gaagcttctc 180

aacgatttca agttacagat tgaagaagca gagactattg tgaagcttac agaagaatta 240

gattctatag atactggtct tcttgaggag gcctcaaaga ttataaaggc attaaataag 300

gcattagaca actttgagat gacacagctt ctttctggac catatgataa ggaaggtgct 360

gtaattaata tttctgctgg cgtcgggtggc actgacgctc aggattgggc tgacatg 417

<210> 17894
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F4

<400> 17894

gcgcggtgcc agctggccgt gctgctcagg cgggaggtgg ccagcgagcg caccgcgtcg 60
gagcgcccgg agctgcactg gggcctcttc agccaggcca agaagggcga ggacttcacc 120
ttcctcaagc ccgaatgcga gcgcgtccct gacgtcccgt cctcctcctt ctccgccttc 180
ggcctgtttg atgggcataa tgggaacgga gccgcaattt acaccaagga gaatctcttg 240
aacaacatct tgagtgcggt ccagccgat ctgaacaggg aagactgggt tgctgcactc 300
ccaagagcgc tggttgctgc attcgtcaaa accgataagg atttccagac taaagcacgt 360
tcttcaggga caactgtgac atttgtcata atagatggat tggatcatcac tgttgcatc 419

<210> 17895
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F6

<400> 17895

attgcagatc gtgtatgagc tggttcttgag gttcattcag tctcccgaga cagacgcgaa 60
gctggccaag agatacattg accacggatt cattatcagg cttcttgatc tctttgactc 120
ggaggatcct agggagaggg agtacctgaa gacgatcctt cacaggatat acggcaagtt 180
catggtgcat cgccccctca tcaggaaggc gatcaacaat atcttctacc ggtttatatt 240
cgagacggag aagcataatg gtatcgcaga gctgttacag attctgggga gtataattaa 300
tggctttgct ttgccgtca aggaagagca caaattgttt ctagtccgag cgctgattcc 360
gctccacaaa ccaaaatgtg ttgccatgta ccatcagcaa ctgtcctact gcgtc 415

<210> 17896
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F7

<400> 17896

cacacgcgtc tgacacggtt ctccctcgtt ccagatctcc cttcgcagcc ggccagggac 60

cccttcacag cgcgggagat ggctgatcag gaggccccag ttgcagttga ggcaccaacc 120

ccagttcttg gagagccaat ggacttgatg actgcgctgc agctggatgat gaagaagtca 180

agtgtcatg atggacttgt gaaggggtctt cgcgaggctg ccaaggccat tgagaagcat 240

gctgctcagc ttgctgttct tgctgaggac tgtgaccagc cagattatgt caagctgggtg 300

aaggcgctct gtgctgaaca caatgttcac cttgtcactg ttcttgcgtgc taagactctt 360

ggcgagtggg ctgggctttg caagattgac tccgagggca aggcaaggaa 410

<210> 17897

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F8

<400> 17897

cgggtccaca acaacgtcca aacacgcgtc cgggagacac tgccatgagg actctactac 60

cgggtggcgc cggccgcgag accgtgcgct gcgcggatac acgcgtctcc cagaggtcac 120

tgcgcctctc aggcgcagcc gcaagtaagg cgctgcagcc ggatcgagtt gctggaggta 180

gagccgttta ggctgagcaa gaacgagg 208

<210> 17898

<211> 79

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F9

<400> 17898

cactgccgac catcctggtg atcgagttcg tggccatcgc cttcgccgag caccagcgca 60

ccatggagaa ggaccccgga 79

<210> 17899

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-G1

<400> 17899

acacaagcct ccaaaatgac tcaaagtatg tacacgatga cctgcatgtg ttccttcgta 60
ccgataccca gggaaacaaa tacttggctg tgagcattac aaaagcaact gcaagcttgt 120
tgctgcatgc tgcaataagc tattcagttg cagactctgt cacgataaag taactcaaga 180
gggtccactta ctactcgtg tgaccatgta attgggtgta acacaattac attraacatgt 240
aaagggttgg aaatctggaa ggtcttgatg gtctaatacc tagctaggag tatggaagag 300
aaggggcggag aaaatctgtc tctgaagcat cgcacctgaa taaaaatcat ccaattc 357

<210> 17900

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-G10

<400> 17900

aaaatgcgtc tgcccagtggt cgtgtagtgt gtagtcgcag cagctagcgc ccggccggcc 60
agtcgagtga gtccatcctc catcg 85

<210> 17901

<211> 102

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-G11

<400> 17901

tgcggggtcc acacaagcct ctaaactgat tcatactagt ctcggctgct atggcggcgg 60
agaagaacgc cgatgtgcag gtagtcgact tcgtccacga tg 102

<210> 17902

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-G4

<400> 17902

agcacgacca cactaccac ccacctccac tactgaccga ttcccagaaa gctcgatcta 60
 gcgcgcgcgg ctgcagagtg cagacgacga cgtacaccat ggcgcgggcg tccctggccc 120
 tgctgctcgc gtcgtcgtc gccctcatgt cggcgccgt cgcacggcg gactcgtggc 180
 tctacgacaa gttcaacacg gacggcaccg tccgcaccca gtacgacgcg tcggggcagg 240
 aggtggcgat gctcagcctg gaccgcagct ccggcgccgg cttcaactcc aaggagcagt 300
 acctgtacgg cgagttcagc gtccagatga agctcatccc cggcaactcc gccggcaccg 360
 tctcgtgctt ctacctctcg tcgggcgacg gcgacgggca cgacgagatc gacattgagt 420
 tc 422

<210> 17903
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-016-Q1-E1-G5
 <400> 17903

cgccctcctc gtgcgaacgc tgccgctcgg ggctcagcag ctccgcggtg ggcgcgcttc 60
 cggcggtccg gttcggcgac ggtgacgtcg acgtgggccc cgccaccgag tgcgcggtgt 120
 gcctggggcg cttcgacgcc gccgagctgc tccgcgtcct gccgcctgc cgccacgcct 180
 tccacgccga gtgcacgac acctgggtgc tggcgactc cacgtgcccc gtctgcccgc 240
 gccgcgtcac cggggggccac gtggacgact ccgagccgga ggactcggcg gcgacgcggc 300
 agcacggccg gcgctcggcg gacgacgcgg aggtacaagt ggttgtgcac cgcgcgtggg 360
 accagcggtg gtccaccgaa ggcttggtgg gccggggccg gtacctcgag gccgccaggc 420
 atcgga 426

<210> 17904
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-016-Q1-E1-G6
 <400> 17904

aggacgcgtg gggcaccgac cagcaatggc cacgttcttg ggaagctcac cggcgctcct 60

cgcccgtccc atcgccaagc cccacatctc ctgcgcgagc acaccgcgcc cgccaagcgc 120
ccagaaccag cgcgcgtcca gcgagcaacc gcaagcaca acacagcagc agtccgtgca 180
agcgcagcca cagcaggcgg cggcgaggcc gaagcgcgcg ggcggcgcg actccacgga 240
ctgggtggcc tgcgtcgtga cgcggcggtt cgggatcggc ggggggctgg cgtgggcccgg 300
ctttctggcc gtcggcgctg tgtccgagca gctcaagacc cgcttcgagg tcgcgagca 360
gcaggccagc agcaacgacg tgggacagga gcaggacgtc gtctgcccac ac 412

<210> 17905
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-G7

<400> 17905

ggcacggcga caagaaggac gagccgtggt ggcccgtgct ggacacccgc gacagcctgg 60
tggagacgct gaccaccatc atgtgggtca cctccggcca ccaactcgcc gtcaacttcg 120
gccagtacca cttcgccggc tacttcccca accggccgac caccatccgg aagaacatgc 180
cgggtggagga gggcgggccg ggcgaggaga tggagaagtt cctcaagcag ccggagacga 240
cgctgctgga catgctgccc acgcagatgc aggccatcaa ggtcatgacg acgctggaca 300
tcctctcgtc gcaactcggc gacgaggagt acatggggga gttcgcggag ccgtcgtggc 360
tggcggagcc catggtgaag gcggcgcttcg agaagttcgg cggcaggatg a 411

<210> 17906
<211> 100
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-G9

<400> 17906

gttggctctc acaattctct agactgagtc ataggaccgc ttgagaacct cgccgaccac 60
ctcgtgacc ctgtcaacaa caacgcctgg gcctacgcta 100

<210> 17907
<211> 418

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-016-Q1-E1-H1

 <400> 17907

 cacacgcgtc agcccacgcg tccggtgttg tggcaacaca tcgtcgtgat atagccatac 60
 attacaagat tactgggata acctcacttc ccttgaatag tttaacgtat ctattcagtt 120
 ttaattgata ttctttttct taattcatgc tgcactgttt tttaatggca catgttttaa 180
 tattcatggt tgtttatata ggtttaatca agatggggca agtgtttcag ttgtccaata 240
 ctttaaacac caatataatt acagtttgaa acacattaac tggccatgcc ttcaatctgg 300
 caatgatagc aggcgcactt atttaccat ggaggtttgc agtatacttg acggtcaacg 360
 ctattctagg aagctaaatg agcgccaagt cacaagcatc ctgaagatgg catgtgag 418

<210> 17908
 <211> 84
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-016-Q1-E1-H10

 <400> 17908

 ggaaagggtca tgctgaacct gctaagaaga ttggggcagg agtcgaagca tttgagatag 60
 gcaaccaccc ggtgtggaaa agtc 84

<210> 17909
 <211> 105
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-016-Q1-E1-H12

 <400> 17909

 gcgggtcgac acaagcctct acacagactt ctagcagcac gttccccaga gcttctattc 60
 ctggccattc gccgtcgacg tcggcggaga ggtgttcgat ccggg 105

<210> 17910
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H2

<400> 17910

aaacacgcgt tcacgaacag accaagaacc ggcataacca agaatgttgc agactacgcg 60
cgctggagac ggcaaggga agctcaatcc gtagcgtctg gcttagcatg ctctgtgcgt 120
cgcgcgcttg gctgtgacag cgcaggattc cagccgcgta ccgtcccaag gatccgccgg 180
cacgccaggg cggcccgccc ggtgacgggc gaccagcgac gagtgtctag cggaccgcag 240
gtacgctggc ctatctggaa accggcgctc cgaggagaa tgccaagcac aggctcgtct 300
ttgtccatgg gtgcgactcc tgcagacacg acgcgcttcc gatctccacg gagcttgccg 360
aagagctggg cgtttacatg ttgtccttcg atcgccccgg gtacgccgag agcgaccgca 420
cccgggcagg acccaggaga gcatcccgct cgacatcg 458

<210> 17911

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H3

<400> 17911

ctcgcgagtc cacacaagcc tctagaggga ctcatatcac cacaaacaga aactaaagca 60
agtgttgat ttaaagctgg tgtaaggat tataaattga cttactacac cccggagtac 120
gaaaccaagg atactgatat cttggcagca ttccgagtaa ctctcagct cggggttccg 180
cctgaagaag caggagctgc agtagctgcg gaattctcta ctggtacatg gacaactgtt 240
tggactgatg gacttaccag tcttgatcgt taaaaaggac gatgctatca catcgagccc 300
gttcctgggg acccagatca atatatctgt tatgtagctt atccattaga cctatttgaa 360
gagggttctg ttactaacat gtttacgtcc attgtgggta acgtatttgg tttcaaagcc 420
ttacgcgctc aacgtttgg 439

<210> 17912

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H4

<400> 17912

aacgcgaaaa acatgaaacg tgagcgagag cgtgcgtgca gcattctccg tatcccttta 60
tttatctcat ataaaaagta gggaacacta ccacatataa gttgattttc ttctatctaa 120
atgtataata tgggattaaa gactgataat gccataccat cttcacacac cacatttact 180
ttcttattga attggaccac aaactaatga ctttaattcca cgggtagggc ctctcttcct 240
ccctcttgta ggctgtatta gcttagtcta gatcgaatca gctttcggct ttgggtcgct 300
cacgtcaccg gccggccacc atcgctacga cagactcact cccaaacggg ctgaggctgc 360
tgggcgtaat cctttaagga gacgaaaggc atcttcccgc caag 404

<210> 17913

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H5

<400> 17913

atccaacaat ggaagttcta ttgtagtgat gtcaaaaggc acaccatata cacagcaatc 60
ttataaagtc agtgattcct ttccatttaa gtggataaac aagaaatgga aagaaggttt 120
tcatgtgact gcaatggcaa catcaggcaa tcgatgggct atagtcatgt cccgcagtgc 180
tggattttct gagcaggttg tggagttgga cttcttgtag ccgagcgagg gcatccatag 240
acgctgggac aatggcttcc gtattactgc aatggctgcc acgatggatc agtctgcgct 300
gatcctaagc aagccaaggc gtcgccaag agacgagaca caagagactc tgcggactac 360
acagtttccc agtcaacatg tcaaggacaa gtgggccaag aatctctacc t 411

<210> 17914

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H6

<400> 17914

atgtggtggt cctagtcatg tgcttgacta taaccctggt cttcgccaag gaagtgcctt 60
acagaggaaa ccagaacctc cccacaaagg caaacggcga ggtcgagact gaaccttcgg 120

gcccactcgc tgtgctcaag ggcttcaaga acttgcccac ggggatgccg tccgtgctcc 180
 tcgtaactgg actcacctgg ctctcttggg tcccgttcat cctctacgac accgactgga 240
 tgggccgtga gatctaccac ggcgacccca agggtagcaa cgctcagatc tcggcgttcg 300
 acgaaggcgt cagagttggc tcgttcgggc tgctgttcaa atccttcggt cgtaagagt 360
 cctcagctgc aatacatcac t 381

<210> 17915

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H7

<400> 17915

cagacgcgtg ggctcatccg tcgccccacg gaagtttcgg cggcgccggc gtgctcgtga 60
 tctcaaccaa ggctgtgtct cgctccgggc acccgctact ccacgcaaac atgtcgagga 120
 ggaagaccag ggagcccaag gaggagaacg tcacccttgg acccactgtc cgtgaaggag 180
 agtatgtctt tgggtgtcgt cacatctttg catccttcaa tgacaccttc attcatatca 240
 ctgatttgtc tgggagggaa actctgggtc ggatcaccgg tggcatgaag gtgaaggctg 300
 accgtgaaga gtcgtcacct tacgtgtgta tgcttgctgc tcaagacgtc gcacagcgct 360
 gcaaggagct tggcattact gcactgcaca ttaagcttcg tgccaccgga g 411

<210> 17916

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H8

<400> 17916

aaggtgctta gcattggcaa aagtagcaga gtcacttgag cttccctgta agtactgctc 60
 tttaggggtgc ccagagatcg tccatacta gagcaagata aatcacgaag cacagtgcag 120
 cttcaggcca tatacctgcc cctatgctgg ttctgaatgt gctgtggctg gtgatattcc 180
 attccgtgtt gcacatttga cggatgatca caaagtcgat atgcacagcg 230

<210> 17917
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-A1

 <400> 17917

 gggcaaggtc gttttctctc tagacatgta catcaagtca ttttggacgt cattgataga 60
 gcaatgggtg cttttctgc tactggaatg aaccctgata gtgtccttcc gggcgacgat 120
 tggttcatgg aggtctccca agaagttgtc agcatcatca gtggaagggg tagagttgct 180
 aatggtgaca gggaagcaaa cagcccaacg gcctcggttt cagcgcactc aatttcttcg 240
 ttcagatccc atggcagctc ctagtttgca agttgggtact ttttttttgg taatcagatc 300
 actgtataat aatcgatagt atattcttcc aacctattcc tccaatcatt tgttttttcc 360
 tttccttttt caaaaatttt 380

<210> 17918
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-A10

 <400> 17918

 cggacgcgtg gggcgattca caaggccaat attatgagga agacagatgg tcttttcctc 60
 aagtgttgcc gtgaagtggc tgagacgtac cctgaaattc aatacgagga ggtcattatt 120
 gacaattgtt gtatgacgct tgtgaagaat cctggctctt ttgatgtatt agtcatgcca 180
 aacctctatg gtgacattat tagcgatcta tgtgctggtt tgattggggg cttgggccta 240
 acaccagtt gcaatattgg tgaagggtggc atttgtctag cataagctgt tcatggttct 300
 gctcctgata ttgctggcaa gaaccttgcg aaccgactg ctcttaagct gagtgtgtgc 360
 atgatgttgc gccacttga attcaacgac aaagcaaacc ggattc 406

<210> 17919
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-A2

<400> 17919

cagcgccact gtccagtgcg cgcgtcaagc ttgcttagct agccgccatg gcctccctcg 60
ccgccgtctc cgtgaagccc gtggccatca agggctctgc cggcagctcc atctccggaa 120
ggaagctcgc cgtcgccagg ccgtcggccc gctccatccg caggccccgc gcagccgccg 180
tggtggccaa gtacggcgac aagagcgtct actttgacct cgacgacatc ggcaacacca 240
ccggacagtg ggaacctctac ggctctgacg cggcctcgcc ctacaaccog ctaacagagca 300
agttcttcga gacgttcgcg gctccgttca ccaagagagg tctgctgctc aagttcctgc 360
tgctggggcg cggctcactt ctgggctacg tcagcgcgtc cgcgtcaccg gacct 415

<210> 17920

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-A3

<400> 17920

gagacatata tactggctgg tacatgagaa gataaaagag agtcaagtca atttcaagta 60
cttttgtgac tttttcaaat gttggggaac ttgaagcgaa cgatttttat gaagatactc 120
tttatgagga tcaccttacg tagttgtata caagaaactt ggacactaga gcctgggcat 180
cttactgctt tttgcaacac ttgcttctct tctgatggaa tgtttgtaag ttgttgactg 240
tgcttcgctg agaaccatag agggcacagt gaatatttga atttgatggg agcctcgagg 300
atttgccctt gtagagtttg ttgacctta cgatgcctct gaagcccagt atcacatgaa 360
tcgccaagtt ttctttggtc 380

<210> 17921

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-A4

<400> 17921

aaacatctct gcttcacaca accatgctgc ttttgttacg gagtctgggg aggttttcac 60
ctgtggtgaa aattcaacat tatgctgtgg gccaggggaa atttgggaaa actaaaattc 120

cagcaaatgc aaggttgaaa ccctaaaag gaatccccgc aaacaagggtt gcaatgggcc 180
aaattttaac gggaatccta aaaaggaatg gcaaataata aactttggga acaattcaca 240
aggggcaaatt t 251

<210> 17922
<211> 273
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-017-Q1-E1-A5
<400> 17922

atattattgg gcgtgaactt ttagtgccaa tataatacag caatatcttt agaaatttaa 60
ttcaaaaaca aatgaagtgt aaaaatattg ctgtatttta ttgggcgtga acttttagtg 120
gcaataatgg gggtaaaata agttcccaat aaaatgggcc cccaatggtc cgaaggcaat 180
ttgcaatccg gaatgtaatc caaacacaga aaatttggtt tggttaattt gaaccatctc 240
aaggggcaat cacagaaaaa agaaagagcg aag 273

<210> 17923
<211> 186
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-017-Q1-E1-A6
<400> 17923

tgtgtatca cggttgagcc gtcatacccg ttgatggagg gcgccactcc gccgaaccct 60
ggcgccagcc cgccgtcccc gactccggcg cccgccgtgt ggcataacta ctactcgtgc 120
cctgacagga acatctgctg ccgcatttac gattacggta gctactgctt cgcctgaggc 180
tgtcgc 186

<210> 17924
<211> 401
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-017-Q1-E1-A7
<400> 17924

gctgttcgaa gatcgagttt ttatgtatgc ctccacgaac tcggccaaat tcctagcatt 60
 gctgatcgtg gttccgtggg tgatagattt tctagtgcac gactatgcc a tgatgccctt 120
 tttagagagg tatgtccaga aggtgccgct tgcagctgag ttacttgatg tgaggcgcag 180
 ccagaagctg cagatggta aggacctgaa catcgagaag gcaagatacc gtcttgaagt 240
 agagatcggc aaatctcccc cgctctctga tgaggaggct tggtttgagc tgcgggaaaa 300
 agcgctcgag ttgaggagc attggaggct agaaaaccga caagcttttg caaatgtatg 360
 gtccgacatg gtttatggg ttgttctatt cctgcttctc t 401

<210> 17925
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-017-Q1-E1-A8
 <400> 17925

caaacatctg agtctagctc ctgacagtca cagacctcaa aactgttctg cacatccttt 60
 cttttgcagt tgcagacttg cagcccaggt gcatgttgct cagagataag caggtgatgg 120
 ctgcccgat ggccgcggcg gacggcgggc tgaggcggct gtccgagaag tcgctgccgg 180
 agaaccgcac gctgctggag gcgctctcgg cgtggaaccg caacgtgcac caccacagca 240
 gcaagccgcc cattgacacg gcgtcttcca cggagatctt cggcgagctc catttccagg 300
 agaagcagca gcccgaccga ggcgcctccc tgccgccgct gccgtcgacc ccgccgacgc 360
 cgctccctcc ttcccgcacg ctgtcgtggc tcgacat 397

<210> 17926
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-017-Q1-E1-B10
 <400> 17926

accacgcgtc cgcggacgcc taggcggacg cgtgggtttg gacaagtgtg ccatgatcag 60
 ttgccaatag atcggcacag tgggcgatgc aaaagttttg gttttgtaca gtttgcacgt 120
 catcaagatg cacatgctgt ccagagttta agtgggcaac ttgacattgc tggtagagta 180

atcaagggttt cacctgtgac acagcagcca tgcattcaac taagtggaag cacaggagat 240
 ttgggtcatg ataaatcttg atgcgtggca cagaatgcca gttccagagc tcgtcgaatg 300
 cagaaattgc gccgcaatgg cattacgacc actttgactg gtgggaaggg cagtgc 357

<210> 17927

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-B11

<400> 17927

cggacgcgtg gggcctcagc cacgcaccgt tgcaccagct cgcattggcgc tccacgccgt 60
 ctcccccgcg gcggtctcct ccccgctacg cgcctctctg cgcagcctcc cccagcgctc 120
 aggctgtggt tgtttaccac agcagtcgtt caccgatttc tctctacga actttgcgag 180
 aaaacttcag gatggaccag tggactttgc tgctaggcga ctggttcttg gacactcgga 240
 caagagagca gttctgacgc atgccactat tgaagaaatt gaagcggaga aatccctcat 300
 cgaagaccaa gctaaagaaa agatggagaa ggcgatcgaa acagtccaaa ctaacttcaa 360
 cactgtgagg acagggcgtg caagcccc 388

<210> 17928

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-B12

<400> 17928

cacatgcgtc agctgacgga tccggggctg cataggcgga agttggacac agagaaggga 60
 ggtgatatga ccgactgtc gaagcaggaa aggcgtagca ccaccactgc aatgaagctc 120
 atgccatgtt tcgtggatgc ttcacagggc tcacatttta actcatgggc tgttgacata 180
 accacgggtg ctaaaccatgc aattgcaatg tcaattttag ttcacgatcg ttgttgcatc 240
 gatcaacgca tatgttgtct gcgatgctag tgtg 274

<210> 17929

<211> 414

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB84-017-Q1-E1-B2
 <400> 17929

gtgacaccta tagctcgtga tgggcttttg aggacaattt gtggaagctc ttcattctct 60
 ggcggttatg cttctctagc gcaagctaata acctcccaaa ccaatggagt ttctgccccca 120
 ggtgtcactc ctaagggcta tgaatctgct gtaccaagct tgtcacttgg aaattccgaa 180
 agtacaggcg tgaacaagt aaattctgca ccaagaatga cacctgaagg ccagaagttc 240
 ctttcgctgg gtattgccc acgaagccca gcactgcgtg atttagtaaa atgccaggcc 300
 agttcgacac tcgttgccat gcctccagcg ggcctgggaa aatcacggtc catgaagatc 360
 ganggccatg attctctggc accgagtgtg aaggagcaaa aaggaatggt ggtc 414

<210> 17930
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-017-Q1-E1-B3
 <400> 17930

accagctatg aacaaggctt cgtctcaatg gaaggcaaaa caaggtagct cacgtgctgt 60
 ttctgcgcca tcttgctcgt cctgggtctt gtccttgagt cacaccaggc tgaacctgga 120
 ggcaaattggt gctgcgaaac ctccaccgga aaataccatt ttaatcgctg cgttgactcg 180
 ggtttggctg aaaatattgg gttctgtgog ggtaatgccg gttgcatcat tatgggagac 240
 agatgtagag gccgttgac ggtgcctgct cgtgatgcgc tttccctgga tgtcatttga 300
 ttaagtacaa gcaattacgt ttagaaatga cggccaaact actgtcgtcc aacgattggt 360
 tatttgtg 368

<210> 17931
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-017-Q1-E1-B4

<400> 17931

gtctatacgg ccaggccaca cgcaccaaga acagaaaagg ttgtaggcat agggtttcaa 60
cctggggttg atccttaca gattgtaagc gcatctcaag ctggagacat tcagtttctt 120
gatgttagaa ggtcagcaga accctacctg actattgagg cacacagggg ttcacttaca 180
gcattggcgg ttcaccggca tgccccagtt gttgctagtg gtcagccaa gcagatgatt 240
aaagtgttta gtcttgaagg agagcagttg acaataattc gctaccagcc atcttttatg 300
ggccaaagaa tatgcactgt gaactgcctt tcttttcacc cagacaaatc actcctatct 360
gctggtgctg gtgataatgc 380

<210> 17932

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-B5

<400> 17932

ctcgcggggtc gacacaagcc tctagagtga gtcctagcta gttcctccgc ctctctccgc 60
acagcaaaat ggagacctcc ttctctccca ccacgctccc caccgcaaag cccctcccg 120
cattccgaac ccacgctgta gccgcacga aacttcccca acagcgccct cgcgctgca 180
ccatacgcgc ggccatcacc cgtggccgca aggaggagac ggtgaccacc gtcggggagc 240
agctggaggg ctgctacctc ctggctggta tcaagtagca tggcctgacg gtgaagcagc 300
tgcagggaat ccgcgacgcg ctcccagaca cctgcacact gctggtggcg aaagacactc 360
tggtgg 366

<210> 17933

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-B6

<400> 17933

ccaactcgtc cggccacgcg tcatggcatc gacaaggaca ctctggatca tgtggccgcg 60
tatactctgc agcctccttc agcgcgggat ctgctcctcc atggccagga tcatgttctc 120

ctccagcaga cagtcggagg tggaggccac tcaactgtatc aaccaaggc agcaggggcc 180
 caaccagtcg gacctgtccg tctccaaagc acggtctctg cataagacct gcttaciaac 240
 ctgaggcagc taaccggatt ctgtcaatgc ggcttatgac ccacagacga tgcacgcca 300
 ggccaactcc ctgacgcagc tcagcatgta tacctcagat agataaggca cctatgcca 360
 ggatgcaatg tcagtc 376

<210> 17934

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-017-Q1-E1-B7

<400> 17934

aggcagcaca ctcagctatc cagcaaaaga gatcgagagg caggagtcac ggccaccgtc 60
 agcgccgccc tggtgaccac catcggttgc cgcgccgcca tcgccaggcc caatgctcta 120
 gggctgcctg cgctgagggc gaggagcgag aggggtgcggt gcagctacgc caaggacgcg 180
 gccccagtcg gcaccaaggc cgcaggcgcg tcgctgctcg ccgcagcggg cgcggtgacc 240
 gcgtcgggcg ggcccgcgct ggcgctcgtg gacgagcgca tgtccacgga gggcaccggg 300
 ctgagcctcg ggctcagcaa caacctgctg ggggtggatcc tcctgggggt cttcggcctc 360
 atctggtcnc tctacacat ctacacctct gacctcgacg aggacg 406

<210> 17935

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-B8

<400> 17935

cccacgcgtc cgccacgcg tccggtcttc acactcctcg ccatcacata aaaccagtcg 60
 aagcagaagc agcgcaatgg cgagcagcac catggccctc tcctccacag ccttcgcg 120
 caaggcagtg aacgtgccgt cgtctctctt cggcgaggcc cgcgtgacga tgcgcaagac 180
 ggcggcgaag gcaaagccg cggcgagctc cggcagcccg tggtagggcc ccgaccgcgt 240
 gctctacctg ggcccgtgt ccggcgcgcc ccgagctac ctgacggggc agttcccggg 300

cgactacggc tgggacaccg cggggctgtc ggcggaccgc gagacgttcg ccaagaaccg 360
 ggagctggag gtcattccact cccgctgggc catgctgggc ccgttgggct gcgtgttccc 420
 g 421

<210> 17936

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-B9

<400> 17936

cccacgcgtc cggcaaacat cttgatcatg tgaatatgct tggacttagc aagaccacac 60
 ttagattacg atacctaatac aattgggttg tgacctcatt actgcagctc cggttgcctg 120
 attcagggga tggcgagggg gtaccoccttg tttatatata tgggccaaag atcaaatatg 180
 accgtggagc agcagttgca ttcaatataa aggactgcaa cactggaacc tccctgataa 240
 atcctgaaac tgtacagaaa ctggcagaaa aagaaggcct ctccttgggc gtcgggttcc 300
 taagtcatat acgcctcata gacaaccaga aacatggtgc ggttgatgtg ggggttaagtt 360
 cttccttgcc agcggcaaat ggccgtcgtg aaaagaaaaa tagcaaga 408

<210> 17937

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-C10

<400> 17937

cccacgcgtc cggctacgta gcagtgcaat aaaaaaagca gccgcaatgg cgagcagcac 60
 catggccctc tctccacgg ccttcgccgg caaggccgtg aacgtgccgt cgtcgtccgc 120
 cttcggcgag gcccgctga cgatgcgcaa gacggcggcg aaggccaagc cagcggcggc 180
 gtccgggagc ccgtggtacg gccccgaccg cgtgctgtac ctgggcccac tgtccggcga 240
 gccaccgagc tacctgacgg gcgagttccc gggcgactac ggctgggaca ccgcggggct 300
 gtcggcggac ccggagacgt tcgccaagaa ccgggagctg gaggtgatcc actcccgctg 360
 ggccatgctg ggccgcgtc 379

<210> 17938
 <211> 158
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-C11

 <400> 17938

 ggggggtcgac gcaagactct aaaatcgagt cgtattaccc agcagctgca tcgatggcac 60
 ctaatgcgga gaagaagccg gctgcgaata agccatcgac ggacgagccc gctgacgcga 120
 agggccccggc aggggaagaag cccaaggcgg aggagcgc 158

<210> 17939
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-C12

 <400> 17939

 ctccagaacat tagaaaatca acctaaatat ccactcccgt cgtcctggac tcgcagttca 60
 tccacgaccc accgaaccac aatggccacg ttcctgggaa gtcacccggc gtcctcgcgt 120
 cgtcccatcg ccaagccgca catctcctgc ggcgagaccc cgcgcccggc aattgcccag 180
 aaccagacgc cgtccagcga gcagccggga gcacagaaac agcggcactc cgtgcaagcg 240
 cagccacagc aggcggcggc ggcgaggccg aagcacgcgg gcgtcgcgga ctccactgac 300
 tggatagcct cgtcgttgac gcggcggtcc ggaatccgtg cggggctggc gtggggccggc 360
 ttcttgcccg tcggcgt 377

<210> 17940
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-C2

 <400> 17940

 cgccgcacca gcgcagccc gcgcgctggt cagaatgagg tccttcaccg tgcgcgcctc 60
 tctccgcaag gccaccggca ccgcgcgcgt ggcaatggct gccagcggcc tgcttgccgg 120

cggtgccatg gccaggagg tgctgctggg cgcaggcgac ggcgggctcg tcttcgagcc 180
cagccagttc accgtcaacg ccggcgacac catcacattc aggaacaacg ccggcttccc 240
gcacaacgtc gtcttcgacg aagacgaggt gccgagcggc gtcgacgcta ccaagatctc 300
gcaggaggag tacctcaacg cgcaggcca cactactcc gtcagcctca ccgtgccggg 360
aacctacggc ttctactggg agccgcatac aggagccggc atgggcggaa agatcacccg 419

<210> 17941

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-C4

<400> 17941

cagacgcgtg ggctagcctc acctacccta tacacagcca ctactgttga tcgattgagt 60
ttgaaccac caggatcagg cttacgatta cagcatgtcg gcgtccccgg agttgtacag 120
gcccgcggaa gcgccggcct tctcgccgtc ctgcgccacg cagccgctcg tgttcgccgg 180
cgacgactac tgctgcagga cgcgcagggg cagcgggatc tgctacctga gggagcccag 240
cacgtgcccg cccgcgcccc ggaatccgcc gccgcgcgcg cccacgtgca ggaagcgcct 300
cttccaagcg gggggtcagc aagttgccta agcggggccc gtccctgttg tgagaatcgg 360
cctcg 365

<210> 17942

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-C5

<400> 17942

ggataactca tgcaacacac tcagctatcc agcaaaagag atcgagaggc aggagtcagt 60
gccaccgtca gcgccgcgtt ggtgaccacc atccttgccc gcgcccgat tgccaggccc 120
aatgctctag ggctgcctgc cctgagggcc aggaaccaga ggggtgctgtg caactacgcc 180
aaggacgccg gccagtcag caccaagggc gcaggcccggt cgctgctcgg cgcaacgggc 240
gcggtgaccg cgtccggggg gcccgcgctt gggctcctt 279

<210> 17943
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-C6

 <400> 17943

 tcgtaggtcg tcacaagtct ctagagtgag tcgtactagc accccaacca tggcagatgc 60
 cgccgaagcg tctcctcttc ctacacaccgt tggcctagga gaacgtctac ggtgacgac 120
 ctgcgctagt gttatcgag cctcgacaag ggcgatcacc aactgatcg gagcctaaca 180
 atacgtagta tttcgttgca tttttagaag cgcaattgac atgatatcta tgtgttgat 240
 gtacaaacac gactatccga cgtaagtggc cccaggattt ttagacttct acatttaata 300
 gacgaattta cggatgattt aactcgttgc tatcttgaga taaggactac at 352

<210> 17944
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-C7

 <400> 17944

 ggagtactca catgtgtgta agtatgcgtg ctccgaggaa gtccccgagc tccaggacat 60
 ggggtggccca gtcgaagggt gtttcagcgt tgcgttcgac cccctcgacg gctccagcat 120
 tgtcgacacc aacttcaccg tgggaaccat cttcggagtc tggccccggcg acaagctgac 180
 cggagtgacc ggcggcgacc aggtcgctgc cgcgatgggc atctacggcc ctgcacgac 240
 ctacattgtc gccctcaagg actgccttgg gacgcacgag ttcctcctcc tcgacgaagg 300
 taaatggcag catgtgaagg acaccacgac catcggggaa gggaagatgt tctctcctgg 360
 taatctgatg gcgacatt 378

<210> 17945
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-C8

<400> 17945

ggcggtagtg catgccctcg ggagtgggat tacgccaggt tcagggccat cgcacacaag 60

tgcggggcca tgttgctctg tgacatggct catatcagtg gtctcgttgc tgcgcaggag 120

gctttgaatc cttttgaatt ctctgatgtg gttaccacta cgacccagaa aagtcttcga 180

gggccaaggt ctggtatgat tttctacatg aagggcccaa agcctccaaa aaaaggccag 240

cctgaggggtg ctctgtatga ctacgaggac aagatcaact ttgctgtgtt cccgtcactc 300

cagggggggc ctcacaatca ccaaattgct gctctagctg tagccttgaa acacgccatg 360

tcacctggat tcatggccta tatccagcaa gtcaaggcaa acatagtttc acttggt 417

<210> 17946

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-C9

<400> 17946

acgcgcgcgc gcagcagatg gggagagaga gatgcagagc gatctagcga tagagcgctg 60

gtcatgggggt cactgtctgt cgccgccgt 89

<210> 17947

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D10

<400> 17947

ggagaatgca cgggcagctg cccagcagga agggtttgag gtaaagagga aaggggataa 60

ggagtgtgtt gcaaacattc ggctggagat gaactacatg ccctgagaag ttcaagttat 120

cacagccgct tatggaggtg cttgggggtgg aggtggacac tcgtgcacgg gtgattgctg 180

ccctctggca gtatattaaa gcaaagaagc ttcagaacc aaatgatact tccttcttca 240

tgtgtgaccc tcaattgaag aagggtgttg gggaggacaa gctcaagttt gcaatgttgt 300

cacagaagat atctcagcat ctgtctgccc caccacccat caatttgggg cacaagatta 360

agctgtcagg gaac 374

<210> 17948

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D2

<400> 17948

cgcgagtgag tgaacaccag ccgtattgtc gcgaccccg cggatcctcg cctgctgcag 60

ccatggcgac ctccgcggcg ctctccaccg ccgccaatcc caccagctc taccgggtccc 120

gcgctttgct gggcaagccg gtgaaggggc ttggcctgag catgggcccg gagcgcgccc 180

agcggagcat tgtgtgccag gcggcgagca gcctctccgc cgaccgcgtc cccgacatgg 240

tgaagcggaa gctgatgaac ctctcctcc tggcgccat ctggttggc accgtcggca 300

tggtcgtccc ctacggcgcc ttcttcgtcc ctgccggctc cgggaacgcc ggcggcgggga 360

cctacgcgaa ggacaagctg ggc 383

<210> 17949

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D4

<400> 17949

tacaatgcgt ctgactacgc gtccgggcag gtcgagcact gcactgggca cgcgtgcaac 60

tgtacacaat cgattcgtcg tgtgatctcg gatttgcac cctccttaag gttagtaagc 120

tcgatggccg atctaggctt tgatcgtggc aacaacgttc ttcccacgct cccgtgttac 180

gtcggcacac acagcaccaa atcctcgtcc acggacatta ttgccacat caactcatag 240

attgttcaca ctacgacca tatgtgagcg agaccgctc gccata 286

<210> 17950

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D5

<400> 17950

atcctcccca ctcccaggga acaacattca tcatcaatcg actataaact cttggtttt 59

<210> 17951

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D6

<400> 17951

cggacgcgtg ggcttgctct gatagcttgc tccaggacgt acgtacgtac gtagatcgat 60

ccatcgatcg ctagctagct gacgaccatg gcgccctct cctctgccgc catcacgcc 120

ccttccttca cggccgcgcc cgctcgcgca gtgggtcagca ggaggtcctt caccgtgcgt 180

gcctctctcc gcaaggccac tgccaccgcc gccgtggcgg ttgccgccag cgtcctgctt 240

gccggcggcg gcgccatggc ccaggagggtg ctgctgggcg caggcgacgg cgggctcgtc 300

ttcgagccca gccagttcac cgtcaaggcc ggcgacacca tcaccttcaa gaacaacgcc 360

ggcttcccgc acaacgtcgt gttcgacgaa gacgagggtg cgagcggcgt cgacg 415

<210> 17952

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D7

<400> 17952

gcatgtacaa aatcacaaga caaacgaata catcgatttt agagcaggag agattattga 60

gtccacgggtg aatgaagcat gcaataaatt acatgatgat tgtggggatt aagctattac 120

aagattgatg ttgtgacgt agcagctaac gtagcagcta ggcagcagcc tcacttcaca 180

actacaagtc acacaggagc atggggctct tgaccagact ggcctcactc atttcacctc 240

gaggatttcg tccaaaggtt acttgttggt agacacgccg gcgtagttca acttgttgaa 300

tcgcaagagc aacgggtaaa ggggtgttag 329

<210> 17953

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D8

<400> 17953

taaacgacgc gttcggctaa cgcgtccgcg gcaaactcca agaacctggg ccgcctgggc 60
ccagcacggt atcctcgtca ccagctcgtc cgcgtgccca gcttctgtt ttcctcttc 120
ctcccgcgct cggacatcgc cagtgaaggc ccgcgcgcgc cgtcgtttga atcctggttt 180
tctccctact cgctgcgctc acgtcgtcgt cttcctgctc gttccgcgac gtcgctccca 240
gtccacagct cgttggcttc cctgtgcgcg gttgcggatg ccgtcgcccg atccttgtgc 300
cttgcccgga tccttgtgcc ttgccgagct catcagcgcc gcgagactct gcacgctgt 360
gctcagccac gcgt. 374

<210> 17954

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D9

<400> 17954

ggcgacgcgc ctctccagcc ccttggtcc caccgcctc cgtccccc cccggcaccg 60
cgccctgtgt ctgctgtgtc cgttccctcc ccgtgcggcc tcctccggcg aggacgccgc 120
cgcagcagcc gaccaggagc cggccccggc ggccaccaag acggccaccg cggacgacga 180
cttcgaggag cgcgtgctac ggatcaagtc ccgcgtcggg cccaagaagc gcggcgcgcg 240
caagaagaag gccgcggcgt ccgcgtcagc cagcgccgtg acgtcccg cgtgcccgt 300
gcgggagccc cggtcggcgc tcggcgcgcc cgtcagctc ggcttcaccg cgtacagcga 360
gcggctcaac ggcgcgctgg ccgcgtggg g 391

<210> 17955

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-E1

<400> 17955

cccacgcgta cgcccacgcg tccgctagaa tccgggctcg tagatgctgg agtacacagt 60

acagggaaat tgcccacttt ttcatcaac ttaagttttt agattaaact tttttgaaac 120
aatcagacag gagatctgtc ttatatattg atgaggag 158

<210> 17956

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-E10

<400> 17956

aaaatcacgt ctctccacc cgcactccat tggcgccgct cccctcccct cgccgcccgc 60
ggagatctga tccgatccga tccgatccgt ttgtgctgt gctgcagcag gaggagaag 120
taaaaaaata tggctgccct gccactggcc accgcgaag tatgcgacgc taaccctcac 180
ctgatcatga acggcgagct ccgcgcgctc cagccaatct tccagatcta cggacggcgc 240
caggtcttcg ccggcccccac cgtcacgctc aaggctctac aggacaacgt cctgggtccgc 300
gagttcctcg aggagaaagg ccacggtagg gtcctcgtgg tcgacggcgg cggcagcatg 360
cgctgcgcca tccttggcgg c 381

<210> 17957

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-E12

<400> 17957

cccacgcgtc cgcccacgag tccgagcacc tccgccgacc gcgtccccga catggagaag 60
cggaagctga tgaacctcct cctcctcggc gccatctcgt tgcccaccgt cggcatggtc 120
gtcccctacg gcgccttctt cgtccctgcc ggctccggga acgcccggcg cgggacctac 180
gcgaaggaca aactgggcaa cgacatcacg gtggaggcgt ggctcaacac gcacgggtccc 240
aacgaccgca cgctcgcgca ggggctcaag ggtgaccca cgtacctggt ggtggagcag 300
gacaagacgc tggccaccta cgggattaac gccgtgtgca ctcacctcgg ctgcgtcgtg 360
ccgtgggacg gcgctgagaa aaagttcacc tgcccct 397

<210> 17958

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-E3

<400> 17958

gtcgacgcaa gcctctagaa tgactcgtag gattacgttg gagaagaatg gacctatatt 60
actgagcttt gtgggtgttg caagtatgct gctgatgctt acgcaatctt ctgtgctgga 120
agggcaaacg aagtggttcc aaaagatcac aagttagtag attactggaa ttatgtctgt 180
tttgagttac cctcgattca gaaatcgcag gaggctggag tgacggagct gggaaacctt 240
gtcgctaagg tgcataaagt tgctgtcagc tgttgacatg ggaaaacagt aacgcggtgg 300
caagcgcttt tgggtgtttct gcttgcagct taataatgtt attcgctccg ttcttttttt 360
atctgtcatg ttttagttca aaaatatctg aggactgagg tagtataata t 411

<210> 17959

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-E4

<400> 17959

ctttttcttt ctttttttta aactggattt cgattcgtct agttttaact ggattttata 60
agcgcgggta gtaagtaact ggtgtcgagg attgaacttg ctatttgtga atgactggag 120
tacaagctag gtacaaaatg aatgaattaa actaaactag tctccggacg agccagatta 180
gcaacgctga cagtggacta aaaagctgca gctggcgaaa gcagttcttt tggaattacg 240
aaatacgtag taaagtcacc tcaccacttc aataggcagc atcgctgcag tctgtaggag 300
ctcgatatcc tgccgcggca gattttctgaa atgtcataat agttcccccc aacatgtcaa 360
tgttggaaga gtacagcaac tcgcatctac atgtggcaga gc 402

<210> 17960

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-E7

<400> 17960

gctagcgctt atagcttgtc agccatggcc accgccgccg cgtctagcct cctcaagtcc 60
tccttcgcgg gctcccggct cccggccgcc acgcggacca caccggcgtc cctcgtgggtg 120
gccaccggcc cgcgcggcgc cggcgcgggg cccatctgcg cgtccatgtc catgtcctcc 180
tccaaccgcg cctacgacct gacgtccttc cggttcagcc ccatcaagga gtccatcgtg 240
tcccgcgaga tgaccgctcg ctacatgacg gacatgatca cctacgccga caccgacgtc 300
gtcatcgtgg gcgccggctc cgcggggctg tcttgccgtg acgagctctc caaggacccc 360
gccgtgagca tcgccatcgt ggagcagtcg gtgtcgccgg gcggcggcgc gtggctgggc 420
gg 422

<210> 17961

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F1

<400> 17961

gttcgctcgc tcgctcgtc gtttgcctt atcccccttg ctttgctcgt tcgttcgatt 60
ggagctagcc gctgcgtgga ttcctcggtt cgcgcgccg atctggcctc gctgagctgc 120
agctgccgcg aatcccgact cgattcggcc gcgctcggat ctgcgccgac tagcggggac 180
cgaggcctct cgattcgcct cggggccgag atggatcatg tggtcggagg caagttcaag 240
ctcggcaaga agatcgggag cgggtcgttc ggggagctct tcttagctgt gaacgtgcag 300
accggagagg aggtcgccgt caagctggga aatgtcaaga cgaagcaccg gcagcttcac 360
tacgagtcca agctatacat gcttctc 387

<210> 17962

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F11

<400> 17962

cgcccacacg ctgcgcctcg tgcgccgccg cgtcgtctgg gtcgctcgtc agcccgccgc 60

cgacgcgccc gccaccgctg aggtgctccg cggcaccggc gtcacgtaca ggcacctcgc 120
 cttcaagccc gaggacaact tcaccaccgc cgacgccgag gctcacgtgc agcggaacgc 180
 cgcgctcgcg catgtcgaga agcaccgact cgccggcgtc ctgcacttcg ccgacgccgc 240
 cggcgctctac gacgtcggct tcttcgaaca gatccgccag atcgaggcgt ttggtacatg 300
 gcctgtggca acaatgtcgg cgggcgagaa gaaagtggta gtggagggtc cactgtgcag 360
 tgccctcaaag gtcgtcgggt gggttctcaag ggact 395

<210> 17963

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F2

<400> 17963

cggtgagcaa agtgatggac atcgtctccg ccttcgccgc gtagacgcga aaccgagacg 60
 gtgagcaaag tgatggacat cgtgaagcag cagctggcgc tggcggcgga cgtggggctg 120
 acggcggaga ccaagtccac ggacctcggc gccgactcgc tggacacggt ggagatcgtc 180
 atgacgctgg aggaggagt caagatcacc gtcgaggagg acaatgcca gagcatcgcc 240
 accatccagg acgccgccga cctcatcgac aagctcgctg accagaagcc acgagacagc 300
 gactgattgt cgacgcgacg acacccaaat cctatccatc gatcgccgct cgtgcatgtg 360
 aatgctccgt taatgtactg taattgagta gttttttttt ttatctctag cta 413

<210> 17964

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F3

<400> 17964

caggccatgg ccttggaac tcttgaaac cggcctgata ctttcattct gttagatgtt 60
 ccagatgaac tccttggtga aagggtgggt ggaaggcggc ttgatcctgt aacagggaaa 120
 atatatcatt tgaagtattc tccgccagag aatgaagaaa tcgcttcaag gcttacacaa 180
 agatttgacg atacagaaga aaagggttaag ttgaggctgg agacttatta ccaaaatc 240

gagtccttgc tatcaacata tgagaacatt attgtcaaag tgcaaggaga tgccacagtg 300
 gatgctgtct ttgctaagat cgacgagctg ctgggttcta tcctggagaa gaaaaatgaa 360
 atggtttcca gcacatgagc aaggtaaaaa tgattgggtg c 401

<210> 17965

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F4

<400> 17965

gccatcgccc cgatggacac cgccgcctca tgccgcctcc tctcgccggc ctctctctct 60
 ccgccccctt gtccgaagca gctacccaag cggcgaccga ccttcgccggc ctgcgagcag 120
 cagtogccca gctccagcgc caagttcagg ctctcttgcc tcctccatga caagtccgcg 180
 tcgccaacga cgtcgggtga gatgcagagc tcacagtcac agttgcagag gctggcgacg 240
 gtgttgcaat gcggagccgt ctgggcagct gttgaggcgc cggggggcgt ggcggtgacc 300
 ggcgaggagg acatcgacct gctagggatc ctgccgccgc tcgcggtggt cgcgcgtcgtc 360
 tacttctctg tcgctctctc ggtgatgatg aactggatga aggctgaggt gggacaagc 419

<210> 17966

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F5

<400> 17966

accacgcgtc cgcccacgcg tccgcagcgc tgctcatggt ttctggagca gttggggctc 60
 agctttcgta cttgttacct actggatcac cgtcaaactg aattgggttc agcactggcc 120
 acattaccat caaggatctc gtgaccacag ggcttcccct gaaacttgtc ggaatcgcg 180
 ctctgacagt cttgatgcca actctaggat cacagggtttt tggcacaaac agcaagttct 240
 aggagcggaa tgcatatttg acggttcatt cttccaagcc caagttctag gagcggaatg 300
 catatcttgg accgttcatt cctcgaagcc cagttgtata tatgtacagt actttccctt 360
 gtatctacgg cctagtcaaa gttagtggga gggatactc tttgatctgt aca 413

<210> 17967
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-F7

 <400> 17967

 cgaagtgcga gcgaccacg tccacacgac acgaaccacc accaccaacc agcagccgca 60
 ccacgcaccc agcgcaaagc gatggcgctcg ctcaccatga tggcgctcctt cgccgcccgtg 120
 gcggtggcgc cgccctcgcg ccgcggcacc ttcgccgtgg tcagggtccgc caaggctcgac 180
 cgctgccagg agcccgccac gctagcagca accgaggcca ggcccgcgcg cgacggacgc 240
 cgcgccgtca tgctcgcggc tgctgcggcg gccgtggcag ccatcgggcg cgccggcgcc 300
 gccatggcgg gcccgaagaa cgggaccccc gaggcgaaga agaagtacgc ggccatctgc 360
 gtcaccatgc ccaccgcaa ggtctgccac aactgagcac gcc 403

<210> 17968
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-F8

 <400> 17968

 atgtacacac caagttcaat atcaacatga cttttgcagg agaaccggcg tgtgctagct 60
 actgacgagt ggcttagggt tcaaggggtgt gaggatgtat atgctcttgg tgattgtgca 120
 acgattgctc aaagaaaagt tatggaagat gttgcttcca tattccgagt agcagacaag 180
 gataactctg gcactttaac cgtgaagaaa ataaaagatg tccttgggga catatatgag 240
 agatacccac aagtggaatt gtatcttaaa tccaaccaa tgaagagctt ccacgagcta 300
 cttaaagact cagatggtaa ctccaaggag ttgaaagaac tgaacatcga acagttcaaa 360
 aaggcccttg ctcaagtga ctctcaagtc aagatgctcc cagcaacggc tc 412

<210> 17969
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F9

<400> 17969

aaactgagtc cctccattat gttgccagtc aacttttggga cgggtgctggtt ccaagttgca 60
cgccaatacgc tacttagtaa gcagggtgtac gtaccttcac gaacgtcttc gagggttcac 120
atgtagatga ttctacttac tgcatacacg tagagggttaa caatcgagaa acgaggcagc 180
ttatgcatcc aggtttgtgc gcgaagagcc cgtagtctgt gacgtatgat acgtgtaaga 240
gtcgtatcaa tcccaagtga gtttatcgcg tcacaactca gttgcagct 289

<210> 17970

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-G2

<400> 17970

ggtcgacgcc cgcgtctagg tggaatgcaa tgagcgtgg atattttccg tagtcgacgt 60
actttgaagg catcaagagc gctatttcaa cctatgccat tgaccatagt ctcgagagcc 120
cagcagaaaa tggaagtgtc tcgaaccctc atctgaaatc agaagatgga gaataagggg 180
gtttgaatgg gactctgcag attgtatata atttgagcag cctaagcatt cggtaatgca 240
cgaacaagtt gctgaatggt cacaactgga acagaacatt ttatgaactg gagccagtat 300
ccaattaacc aaagcgtaca cgaacaaggg gaacaaagtg ctctggtgca agtagttgtc 360
ggcagatcac atatgaagag tatatgattg attgggaact gaggtgtcc 409

<210> 17971

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-G3

<400> 17971

cgagaagagt cgaggaaaaa tctcgcatte gcaaaccaag caaatggagg catgagctcc 60
gccgcctccc cgtctctcgc cgatctcccc caaacctag cctcgacctg accgccagcg 120
ggcccgcagg ccggagaagg agtcggagtc gccccaccc acccacctc tgccgcgggc 180

ggggagcggg cggcggacga gatgccgtcg cacggggatc tggaccggca gatcgcgag 240
 ctgcgcgact gcaagtacct gcccaggcgg gaggtcaagg tgctctgcga gcaggccaag 300
 gccatcctca tggaggaatg gaacgtgcag cccgtgcgct gcccgcgcac cgtctgcggc 360
 gacatccacg gccagttcta tgacctcatc gagctctttc gca . 403

<210> 17972

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-G4

<400> 17972

gctgaagttc agtatttttc tgtggtctga atgtccaaat tccggtggca tcttctatag 60
 ctatgctttg ctttgctttg aacacttggtg ttttagggct ttctagctga acccgttgtc 120
 caatattgct gacggtgaaa tttttggtta atcttaaaac tggaaaaaaaa aaaaaaaaaag 180
 gaaaaaaaaa aaaaaaaaaa agacaacaaa aaggagataa aaacaagaaa ataaaaaaaa 240
 aaaaaaagag agaaaaacgg agaaaaaaac gaaaagacca agtaagaaag ggggggcccc 300
 cc 302

<210> 17973

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-G5

<400> 17973

cggacgcgtg ggcggaccgt gggcggacgc gtgggcggac gcgtgggtga gctgataagg 60
 ttgcgctgtg ggcacaggtt cactcgaca tgcttgagc catgggcgcg gaaatgtgca 120
 gactgcccac actgtcgaac gaacatacgg tcacgatcct gacgacaaac ccttagttca 180
 gaataagctt ataaccacca tggagtttca ctggtgtaaa attcgctgtt gtgggcatgc 240
 cagttaatcc ggtgctccta tggcgacatg taatttctaa taccctgaat attttgtgtt 300
 gtgtcgctca gagaggttta tgggtgtgtg tgcgagtga ggctgatagc agtatagctt 360
 agaaagcacc cttttgtgtg tatgtagcga gggatcacg 399

<210> 17974
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-G7

 <400> 17974
 accacgcgtc cggatcgcac ttgacgatca aatcgaatcg cacctattcc tctctttggc 60
 ggtagccgcg tagcgccgcg tcagtcgccc cggaccacgg cggagaaatt gcggcttcac 120
 ctgcctgtg tgtcctgatt acgcgaggac tcgagcggct aagcttagca gcgatctcgg 180
 tctcagcgag gtcggtgggt gccggaagag aaatgggtgg cttccactta catcacacct 240
 gtgtcaaggc acgcaaagtg tttgtgcgag atg 273

<210> 17975
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-H10

 <400> 17975
 gaaataagtg aatggtcgaa tgctatgctg gaaaagaatg ttgaggagct tcgtgaatcc 60
 aaggagagat gctttgagaa atccttggat tgcgtaagaa aactaaaaac cagctttgcc 120
 aagggtgggtg cgtagtcttc caaagaaaag ttcattcgag gtgaccccca gggaatcatt 180
 gattgggtag gtgaagaagc cgaagctttt ggagatatcc ttagtgatca tggggatagt 240
 tgtgccttcg ccggtgcttg gggggttgca gcaattctgg agaaagctgg ttgtgaccat 300
 gtgaaagctg tggctcagac cgaaacgggc ttctccacag acgacaggaa ggaccctcgc 360
 ggccaagcca ctttgggtggg cggaagtgtt t 391

<210> 17976
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB84-017-Q1-E1-H2

<400> 17976

atcaaagtct aggtctaagt ctangtcacg tgctcctgag gaagtccttc ctggagaagg 60
attcaaggac tctgagcaga agaaaaaggc tatcaagaaa gcaaaggccg ctactaggaa 120
caggaacaag gaagctcgtc gtggagaggc tgaccgtgtt attcccactt taaaaccaaa 180
gcatttgttt tctgggaaac gcactcttgg aaagacaagc aggcgataag ctcagtacct 240
cactggatct ggtaataaag gactgggtgca attttgggtg gagcaatttg atgaaacggg 300
agcttttatg tctagcactt atgtatgcta cttatttatg aaatgtcttg ctgttgctgt 360
atcatgggtcc tctttaagac agttttacta gtttatacaa tg 402

<210> 17977

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-H4

<400> 17977

cccacgcgtc cggcccaccg aattccctgc gattcctctc ccctcgccctc ctcgctctccc 60
cctaggggat cgtcggagag gaatcgcaaa gagggccgtc tcatccgagt taaggaagcc 120
atggagcaca aggaggctgg gtgccaggcc cccgagggac ccatcctctg catcaataac 180
tgtggcttct tcggcagcgc ggcgaccatg aacatgtgct ccaagtgcc aaggagatg 240
ataacgaagc aggatcaggc caagctgggt gcctcctcta tcgacagcat cgtgaacggc 300
agcgacgccg tcatggagcc ggttggtgct ggcagcaaca cggtagtagc tggtgccccaa 360
gttgagttgc aaacaatgaa cgggtgcagca gcccgctgat gttgccg 407

<210> 17978

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-H5

<400> 17978

caacctcaag caggacctgt acgccatcat acaggcgagg cccacggggc agcgctctga 60
gtccgcagg ctctactccg acctcttcaa cagcgtcacc agcctggatt acgcccag 120

agacaaggac gcgctccagg tgcaggagca ctacggcaac atcgtctccg ctctcgacga 180
gattttctcc aagatcacgt aggatactca gaaatctata tttccagttc gtggatacaa 240
aggcggagca cggataagag agaactagga acttagatca cgttcacatg aaggaagaac 300
tagcagcaca tggcgacagg caaaaaggat ccttcttgct atgtagcgac attttttttc 360
ttctagagag aactattttag ctagtctctg tgagcttc 398

<210> 17979

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A10

<400> 17979

acggacgcgt gggcggacgc gtgggggagt ggtcgaaact cgagaagaag ggtccacaga 60
tcacacctga tcgtcatcca cataatccct atctcggaat caactgttct acttcgaagt 120
atctatcaac ttcactacta cagactacag tccacaatct atcagcttca ctactacagt 180
ccacaacaga ggaagaaaat tatccaacgg acaattccct atatgccact acagttttgc 240
tcggtacttt attcaccatc gtaaatatta taatcggatg taaattctta tccttctata 300
tcacgcgt 308

<210> 17980

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A11

<400> 17980

ctgggacgag tcagatggtc agtgggacgt agaccagaa gattatggtc tgttcctttc 60
cattttcttc atcggccttc aattgaggca aagctcggtc ctacgctcta agatgtctgc 120
gtgatgatac atggattcaa aagaattggt tgcttatctg gccacttcc cgcactcctt 180
tgttccttta ctctgttaat atactaagat gtcaggcccg cttaacaac agtaataaac 240
gaccttcgaa ggtcatgtag ttatcagttc agtttgtctg gtgtttattg catggggata 300
gaagtgatta agtgaagcgt tcaatgttca gtgaagtggc tgaaaacaat cagggttagt 360

attatgtacc ttctcgcttg ctctg

385

<210> 17981

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A12

<400> 17981

actcctcgcc atcacataaa accagtgcaa gcagaagcag cgcaatggcg agcagcacca 60

tggccctctc ctccacagcc ttccgccgga aggcagtga cgtgccgtcg tctctcttcg 120

gcgaggcccg cgtgacgatg cgcaagacgg cggcgaaggc aaagccggcg gcgagctccg 180

gcagcccgtg gtacggcccc gaccgcgtgc tctacctggg cccgctgtcc ggcgcgcccc 240

cgagctacct gacgggagag ttccggggcg actacggctg ggacaccgag gggctgtcgg 300

cggaccgga gacgttcgcc aagaaccggg agctggaagt catccactcc cgctggggca 360

tgctgggagc cttg 374

<210> 17982

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A4

<400> 17982

ggggatgttc ttaagggttaa gccattggca gctttaccaa tgattgatga gggagagctt 60

gactggaaaa ttgtggccat ttctttggat gaccgaaaag catctcttgt gaacgacgta 120

gatgatgttg agaagcattt tccggggaca ctgactgcca tcagagactg gttcagagac 180

tacaagatac ctgatggaaa gcctgccaac aaatttggtc tcggcaacaa gcccgagggc 240

aaggaatacg ccctgaaggt cattcaagag accaacgaat catgggagaa attggtaaag 300

agaaatattc ccgctggaga gctctcgttg gcctgatttt ggcccatggg aagccaccac 360

attcctttga act 373

<210> 17983

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A5

<400> 17983

atataatgaa agtattacag gataggaagt acgtgacagc aaaaagtcga gttctacacc 60

ctgagttccg tggtcgaatg gtctcggcat tccgtttgca ccaattctct gacgttgctg 120

attacagcct tacagctaac atggaaacag agctagatca cgtctctgct gggctaactg 180

aatggaacgg tcttctaaaa ggctactggg aacgaatcag caaatattgt gcagatgcga 240

gttatcc 247

<210> 17984

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A6

<400> 17984

atgtacgcgg tggggttctg gatccgggag actggccagg cctcgaccg cctgggctgc 60

cgctgcagg gcaagtactt cttccacgag cagatttcaa ggcacgcac catcatgaat 120

atcgttgaca aaaccctca tgtgcataaa gacgcatttg ttgctccaag tgcacccctt 180

attggtgatg ttcaagtcgg gtcaggagct tccatttggt atgggtgcgt cttaagaggg 240

gatgcagaca tcatacacat tggatctggg accactatac aagacaattc tcttacacat 300

gtgggcaaat ctaatctaag tggga 325

<210> 17985

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A7

<400> 17985

caaaaaactt gaagagcagg ctgcccact tcacatgttg actggctggg cacagattgt 60

tgaagttgct gtatcaagaa ggatgtcatt attcgaggac tggtatcagc tattgtttga 120

gagaagcata ccaagttctc agtgacccta cacagcgcca agcttatgac tcgcatggga 180

aagacgacat ctcaacgtac gttcagttac aaataaatta cttgccgccg cttttcagtg 240
gaaccagggc ttgttggaac atgggaaagt ttcttatttc tatgtgaatc aaactgtttc 300
aaaccagtcc agtgcctttt ttttggcact gctgc 335

<210> 17986

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A8

<400> 17986

aacgtttccc cagatccaga tgcagggcgt gaagggcgac tgttaccaga ttatgatccg 60
ttttcgagct tgcaggaatc gacggtcaag cttcggtgac caagtgaact gggtcttcga 120
gttctggaag gttgaagacc ctgagcatct atttggtgaa ggttggtccac attgcaacca 180
ctgctcagga gaagacgaag tctggaagg agacttccag gagtttcaag actacgacga 240
attctaggtg tgggttggtg gcaaaccoca gtcagctggc tgtgaaggcc ttatctttac 300
tgtgtttcgc taacactttg atttaactgt aagttg 336

<210> 17987

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-B1

<400> 17987

agcgcttggc gagtcggatc tcccgtaac cgtgcgtgtc gaccgggcca cgggcgaggt 60
gaccacgcac ggccggtgcg acttcggcgg cgtctcttc atgggcatga cgcgtcaccc 120
gaagaaagac cccgtcactg gcgaggtctt tgcgttcggg tacggccccg tgccgcccgtt 180
cgtcacctac ttccggttcg acccggccgg gaacaagggc cctgacgtgc ccatattctc 240
agtgcggcag ccgtcgttcc tgcattgactt cgcgcgcac gagaggtacg ctatcttccc 300
ggagatacag atcgtcatgc agcccatggg catggtgacg ggccggcgcg ccgttgggtc 360
tgacgc 366

<210> 17988

<211> 98
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-B11

 <400> 17988

 attggaaata aaaagcgtgt aatgacctta ctcagcaaca aggcaagtgc caagtacaat 60
 ttccgaatga taccaacaat cctaactgag tttttgcc 98

<210> 17989
 <211> 159
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-B12

 <400> 17989

 acggacgcgt gggcggacgc gtgggcgctg ggaaacatcc taggctattc ctctggctcc 60
 acaaacaact ggcacaagtg gtttccgttc cttatgacaa acgcctgctg tgaaccctgc 120
 gcacacccga aaggcgcggt tccggtggct gtggtgttc 159

<210> 17990
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-B2

 <400> 17990

 agcgtgaact tggatggcct gacggaagca cagattgata aaaagctgga ggagcttgcc 60
 aaggccggcg agtctcttaa aaccaaatag ttttggaaact ctatcctgcc atgtttaacg 120
 ttcccaaata aatgatgcca tatgggtgag caattgttac tctatcgta tctgtagttg 180
 tgccctggaat taagtcttta attggcttaa ctttgtgaaa taatcactac tcttttacgt 240
 gccatgcatt ttctagatta catgctatat tgaaaaggga aaaaatcaat ga 292

<210> 17991
 <211> 215
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-B5

<400> 17991

agttggaaaa agcacattct cagcccaact ctcgtttgcc ctagctgaaa tggaccatca 60
tggtggcctt cttgacatag atatatgtgg ccctaacaat cctaaaatgg caagccttta 120
aagaacaaaa aattatcaaa agaaaccttg gtggtcaccc gtttaagttg aattcaaacc 180
tggtgtgaag gtcaatgggt tcaagctgcc caaat 215

<210> 17992

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-B6

<400> 17992

aaacaccagt gtggtataac atggtgaaac aaggtctcat cagcgaccct gttttctctt 60
tctggtttta cgcacatgct gatgaaggag aacgtggtga aattgtgttt ggtggaatgg 120
attctagcca ctacaagggc gatcacacgt ttgtcccagt cactcggaag ggatactggc 180
agttcaacat gggatgatgc ctggttgatg gaaagtccac ctggggtttg tgccgggtggc 240
tgtccagcca tcgcagattc tggaacttcc ttgcttgctg gccccacaac cataattact 300
gaaatcaatg aaaagattgg tgctgctggg tagtg 335

<210> 17993

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-B8

<400> 17993

acccacgcgt ccggtgtcgt gtagtgtgta gtcgcagcag ctagcgcccg gccggccagt 60
cgagtgagtc catcctccat cgccatccaa tggccgccac cgccctgagc atgagcatcc 120
tccgcgcgcc gccgccctgc ttctcgtccc cactcaggct cagggtcgcg gttgccaagc 180
cgctggcggc ccccatgcgg cgccagctgc tgcgcgcgca ggccacctac aacgtgaagc 240
tgatcacgcc ggacggggag gtggagctgc aggtgcccga cgacgtctac atcctggact 300

tgcgcgagga ggaaggcatc gacctgccct tctcctgccg tgcgggggtcc tgctcctcct 360
gcgccggcaa ggtcgtctct gggtcgctc 389

<210> 17994

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-B9

<400> 17994

acggacgcgt gggctctgagc agcctaaagc gtccgaagga gcagctgaga aggccgatgg 60
agaagatgag aaagttatct ctaatgaaca ggagacagct gttcctggta aagatgaaaa 120
aactgtgcac atgataaatc ataagaagag taaggatgact aataaaagaa caagtgtgac 180
caaagaggct ggagggcata aacgtgaacc taataggatc ggaaagcatc tcaataaaaa 240
taaggatacc gataccaacg aagttgatgg ccctgaaagc actgaaacaa atggagatgg 300
gaaagaagag caacgtgaac acaccaagc 329

<210> 17995

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-C1

<400> 17995

ccacggtact ccagccgcta ccctgcgatt ccgccagtac gccaccacca ccgagcctgg 60
actaccgccg ccgcccttcg ccgatatctt cagcggcgaa cagcggccac cagatcccgc 120
ccctgcgatg gaggccgtgg tgaaccggaa ggcatacccg ctggctgatg cgcagctgac 180
gatgggtatc ctcgatatca tccagcaggg cgccaactac aaacagctta agaagggagc 240
gaatgaagcg acgaagaccc tgaatagggg catatcggag tttgtagtga tggcggcgga 300
cacagagcct ctcgagatcc tgctccacct ccccttggtta gctgaggata agaacgtgcc 360
atatgtggtt tggtcaatcg aagcaagc 388

<210> 17996

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-C11

<400> 17996

agatgatcta caaaatggag ttgctggggc tgttccagtt ccacctgatg aggggtggcaa 60

agaagagggtt atcaattcat tggttgccaa tgttgaatca atgattaaag cagaccggaa 120

gatacatca ttgaaacaac ttcagggtca tatttggagg attggatttc aaaagaaaga 180

gctacaggga gttgtctttg aggatgttcc tgtggcgcta aagaactggc atgctactgg 240

cataaaggtc tacatatact caagtggaag tagagaagca caaaggcttc tatttggcaa 300

tacaacatac ggtgacctgc gaaagtctct gtgtgggtac tttgatacca caactggcaa 360

cataacagaa aca 373

<210> 17997

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-C12

<400> 17997

caccacagcc gccggaagct cctcctcctc cttctccatg agagagatct agcaaagcat 60

agcctccttc ctgctggcgg gatctccttt tgattcgtaa cttataacag aagaggagga 120

ggcacagcac cttgtcaaat gatgaactct cagaagctgc agctgcccggt tcaggatctg 180

atgagtctga gagggagatc attcatcctc agcaagggtga tgatgcacca gtgcactgca 240

gctgtttcgt cgtcgtcttc acctggcctg caggttgctg cccatcccag tcccagcaag 300

aggccgcgtc ct 312

<210> 17998

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-C9

<400> 17998

aatttctaag aacctaaagc ccatgatatc gaaccaatg agcacctata atctgtacag 60

aaatcctaga aacaagaacg caggaaactt catgagattg tcagactttt tgacctttgc 120
 aaacggcaag gatttgtcag gaatcatgat aactgttgag catgctgcat tcatggcaga 180
 ggagcttggg tttggtgtgg tagatgcagt gatcaaagca cttgatgact ctggttatag 240
 caaacagact gcccagaatg ttatgattca gtcaaccaac agctcagttc tggatgaagt 300
 caagcaggaa accaagtaca accttgtcta catgatcgaa gaaagtgtcc gagatgccgc 360
 accttcctcc cttgccgaca 380

<210> 17999

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-D11

<400> 17999

acccacgcgt ccgcccacgc gtccgcccac gcgtccggag atggcacaag ccatggcgctc 60
 catgaccggc ctctcgcacg gcgttctgcc cagcaggcgc gccgccaaca gggccaggac 120
 ggccgccgctc gtcagggcgt ccgcccaggc gcaggcgcag gcgggccgcc gcgccgtgct 180
 cgggctgggtg gccactggca tcgtcggcgg cgccttgctg caggcgggtgc acgccgagac 240
 cgtcaagacc atcaagatcg gagccccgcc gccgccctcc ggtggactcc ccgggactct 300
 gaactctgac caggcgaggg acttcgacct ccccttgaag gagcggttct acctgcagcc 360
 gctgccg 367

<210> 18000

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-D12

<400> 18000

acaacgattt acatgcgcca agaaccatct ttcttgctag tttagcggtta tgtacgcttt 60
 tgtaatggct tctaaacttg tttttttgat gtagctgtac atttggatgt cctgttagac 120
 gtgaaatggt ttttacgtca gatatttata actacttctg agtcagt 167

<210> 18001

<211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-D2

 <400> 18001

 cacgcgcgca agcccaaccg atcgagcagc tctagcatgg cgaacgggtgg gtactactac 60
 gaccacagcg cgggctacag cggctacagc tactcggcgg cgccgaagac gactcggctc 120
 caactcctgg tgttcctggc cagcgtggcg ctgcagggcg ccacgtcgct ctactcgcgc 180
 tatcaatctc cgggtggagaa cctgggtggac caggtgcggt tcgccgtggg gctgtccccg 240
 ctgctgctcc tgctcgccgt ccagtactgg gcggacacgg ccgggtcccc gcggcacccg 300
 ggcggcgccc tccc 314

<210> 18002
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-D7

 <400> 18002

 acccacgggt ccgcccacgc gtccgcccac gcgctccgcc acgcgtccgc ccacgcgtcc 60
 ggaaggaacc aggaaccggg gggatatggc atgggacgaa aaatgacaag aataaggatg 120
 tggatacaat agcttcggac ttcacaaagc tgaagcacia ggcttgggca ctccagaaga 180
 gcacaacat gtaccaacct tctacctaaa ggtgtcaata gttcaagaag ttgatactat 240
 atacttatgc ttgtcactgt atagtctata agtcctaatt cagataacag gtgctgcttc 300
 agccttggat atttgccgat tccgagtga gttaccatgg catcggttgc aagaataaga 360
 aagtaatgtg gtta 374

<210> 18003
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-D8

 <400> 18003

acccacgcgt ccgcccacgc gtccggcgac aaccactgag ccgagcgggg gtggatatgg 60
 cagcgggtcgc cgcccaccac cacctccacc cctcctccgt cgctgccga actccaacac 120
 ttggccgacg ccaccgtttc tcgtcgttc ctctcgccgc gcggccgtcc tccaaggcc 180
 gtttcagctt ccgagccgcg acccgcgtcc tcacgcgcgc cggaagcact ggcgccagca 240
 gcgcgcctc gcccgccgcg acgacggcgt cgtcgttgtc gctggaggag ctgcgcgggg 300
 gctgcagcac ctggacgtgg cgagggatgc gcgtgaact 339

<210> 18004

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-D9

<400> 18004

cccaaccaag ccgcacgac acgacaccaa gtcgaggagc tcgagagggc accaataatg 60
 gccggcgtga actccagcgt cgtcgggctc aagcccgcgc cggcagtgcc gcaggccgcc 120
 gccgcctcat cgccggcgaa gcgggtgcag ctggccgcgc ccgagggccg ccgcgccgct 180
 ctgctcggcc tggcgccgt ctctgcgctc acggccacca ccgggtcggc caaggccacg 240
 atcttcgatg agtacctcga gaagagcaag gccaacaagg agctgaacga caagaagagg 300
 ctggccacca gtggagccaa ctttgcgcgc gcctacaccg tggagttcgg cagctgccag 360
 ttcccctaaa acttcactgg gtgccagg 388

<210> 18005

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E1

<400> 18005

actggaacag cttctggtgg atgagggaaat taactgcgag atagtccgat cagtgcctat 60
 ggagcgtgca aactgccctt atctagcagc acaaacagcg accgaaatgg aagcattttc 120
 gagaacagaa acatttcaaa aaatcgttga agcgtattca aggccaacaa ggatcatccg 180
 tggaaaagaa attgagtctg ctttggagggt tgaccacac gtatttgaga aagatgaaga 240

gaaagttttg tggagcgcct acttggacgt tgctgataag atccatcctg gtgttgatat 300
 taacaccttt gtggatgcct ctcttatcct gatacaaccc ctagaagatt tcttc 355

<210> 18006

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E11

<400> 18006

agtcccgact ccgaaatccg aatccatggc cgtcctccgc gcgtcgccgc cgccctttct 60
 ccccatccg ctctcgccgc cctctcagt caagcggcgc cccacctgcc gcgtggctgc 120
 agccacagcc agaccagtc ctgctccttc caggcccagg agcggcggcg tccatggagg 180
 ccgccccaaag agggggcttc ttgcggcaag gagaaggccg ggggaggggc gggtgccctg 240
 cttgcgtgcc gcggaggcgg gggtcggtgc ggcaggcgtc gcgaaggagg aagacgagta 300
 cctggcgccg gaggccgggt ggggcgtgcg gcggatggca cgggttgggg acgagatgcg 360
 gcgggtggcg caggtccagg ccgagggcct ccacgtcccc gtcgcgctct tc 412

<210> 18007

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E12

<400> 18007

cttgctctga tagcttgctc caggacgtac gtacgtacgt agatcgatcc atcgatcgt 60
 agctagctga cgaccatggc gtccctctcc tctgccgcca tcaccgccc ttccttcacg 120
 gccgcgccc ctgcgcagc ggtcagcagg aggtccttca ccgtgcgtgc ctctctccgc 180
 aaggccactg ccaccgccgc cgtggccggt gccgccagcg tcttgcttgc cggcggcggc 240
 gccatggccc aggaggtgct gctgggcgca tgcgacggcg ggctcctctt cgagcccagc 300
 cagttcaccg tc 312

<210> 18008

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E2

<400> 18008

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgga cgcgtgggct gcggctacag 60
tggtggcggc ggcggctact gtggtggtgg cggcggctac ggcggtggca accgtggcgg 120
cggctacggc aactcccacg ggaactggag gaactgagcg gtggggcccg cgcggccaag 180
ttatcctggt cgctaccgtg ttgtttaccc tagtccagag tgtttatctt cgttcgtctc 240
gtgtttgttg ttgccatct gtgtttttga ttgaaggctg ctctgtgtca gttgttactg 300
ctgtgttcat cctcggtctc agcacaccca tgcatacaacc agcatggact gcggatcaat 360
gggtgctggt acc 373

<210> 18009

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E3

<400> 18009

aaggggcccgc aagcgtgaga ggtcagtgag cagagctgca gctgatgggtg acggtatgga 60
gatagatggc cagcaatcca acaagaaact gcgtcgtaca tcaacgtcga ggtcgatgtc 120
acgggctcct gaagaggtca ttcttcgaga aggattcaag gactctgagc agaacaagaa 180
ggctatcaag aaagcaaagg cctctacaaa gaacatgaac aaggatgctc gccgtggaga 240
ggctgaccgt gttattccta ctttgaaacc aaagcatctg ttctctggga aacgcactct 300
tggaagaca agcacgcgat aagctcagca cctcactgca tctggtaata aaggactggt 360
gcactgttgg ttgatcaaa tttatgaaac ggggtgtttt 399

<210> 18010

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E5

<400> 18010

aattgcattt tggaagaagg cgaacctgat attccttttc ttcctgctcc ggaagctcat 60
 actgcctttc tactccttca cgctgtttctg catcatcctc ccgatgacga tgttcgtgcc 120
 ggagggcgag ctccccgact ggggtggtgtg ctacgtcccg gccctgatgt ccttgcgtgaa 180
 catcctgccc tcccccaagt cgttccccctt catcatcccg tacctgctct tcgagaacac 240
 catgtccgtg accaagttca acgcgatgat ctccgggcta ttccagctgg ggagcgcgta 300
 cgagtgggtg gtgaccaaga agtcggggccg ctcgtcggag ggcgacctca tcgcgctggc 360
 cccgcccaag gagcccgta agcttcacgc 390

<210> 18011

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E6

<400> 18011

gccaaaccct agccggcgag tgccgcccac cgcccgcccg ccctccgccc cgcgtcggac 60
 ggtgccgagg gaagaggcac catgagggtg gagaagtgtt ggtttctgtc ctctaccatc 120
 taccgccggc atggaatcca gtctgtccgc aacgacgcca aggtcttccg cttttgccgg 180
 tcaaagtgcc atacaaactt caagatgaag aggaaccctc gtaagggttaa gtggacaaaa 240
 gcatacacgc atttgcatgg caacgacatg acccaggata caacctttga gtttgagatg 300
 aacaggaaca ggccggagcg ctacgaccgc aattta 336

<210> 18012

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E7

<400> 18012

aagcacaagc atcaacattg ctattccaat agataatgtt atacatatta tccataaaac 60
 aaagacgaac ttgtgtaggc tcaactgcaac aaaaaggaat gaaacgatac tgaaccacgc 120
 atgagttcac cataaggtac gcaaagacaa aacacagtaa tactttctga tattggttta 180
 tgcagttcac attccatttc atctttctact gggaaggaat gggctgcata tctgggtgctg 240

cagcaacgtc agccacgggg tacctgaaca cgcgggagag ccgctcagtg ggcaccagcg 300
 ggagataggt ggccacggcg ttcccgcgct tggcaccatc acgcaccgcc gaattgtacc 360
 tggcagagag ctgtgcggca gtggggacga ccgccttggt gac 403

<210> 18013
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-021-Q1-E1-E8
 <400> 18013

gtctattcca ttccaggaag agtacgcgga gggcgaagag gttgggaggc tgccatgcga 60
 gcaccggtac catgtgtgct gcataggcca ctggccttggg cagaagaact ggtgtccagt 120
 atgcaaagcg tctgccgtgc cttccaaggg ctgaagcatt ggggatgctg gaaaccccg 180
 tccggattac aaaccatect tgcttttgtc tacgtacatt gttcttttcc ctatatgcat 240
 tagatataga tcatgtctag atgtatgacg ctagaacagc ttgcgatttg ggaggaagct 300
 aagagagtaa tagttagctg gtaataata gttcatagct aatatttgcc agataactat 360
 tacttgggta cctaatagct gtgcccttc 389

<210> 18014
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-021-Q1-E1-F1
 <400> 18014

acggacgcgt gggcggacgc gtgggggcta acagttgctg atgtagcctc ccatatccag 60
 catgagattc agtatggagg tgacaatgca tcagcctctc caaggtcaca ataccctagc 120
 caaagcactg caccgacaat gcacattccc aacacaagca accagcaacc atcgccaagc 180
 ttatttgcctc caggaaaccc tgggttgaca cagtccaaga attccatggg cttttcaagc 240
 gcattatcca gcccateccg gcggagcctg caaccttacc acctagagca ggacggggat 300
 gcacggtaact tcgcgaacgg tgcaagccgc gatgtgaacc ccacggcttc gaatgattcg 360
 tccatggaca tgcactcgga caacccaact c 391

<210> 18015
 <211> 90
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-F11

 <400> 18015

 acccaccgct ccgaaaaaaaa aacaaaaaaaa aaaaaaaaaa acaaaataat ctaaaaaaaa 60

 ctaagataaa aacaacgccat tacacagaaa 90

<210> 18016
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-F12

 <400> 18016

 ccaaatttga ggataagcac atcaagtgat gttacaggag tagaaatcgc aggtgccctg 60

 aagaacgttc ttgcaatagc tgcaggtata gtggaaggca tgagtctcgg gaacaactgt 120

 atggctgccc ttgttgccca aggctgttca gagatacggg ggttggcgac gaagatggga 180

 gcaaagccaa cactctttc tggtttgtct ggggtcgggtg acatcatgct cacatgcttc 240

 gtcaaccttt cgcggaatag aacagtggga ctacgcctcg gttctggtga aaagcttgac 300

 agaatcatgg gttctatgaa tcaggttgct gaaggcgtat caactgctgg ggctgtc 357

<210> 18017
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-F5

 <400> 18017

 ccggcaccac ctgtgcggcc tgtcatggca cttggaagag gagggaggaa ggactcaaga 60

 ggttaaggta cggatattat agatttggct gaagaaactg gttgttgcta ttatgaagac 120

 taagacgagt aggagcttac agaagtctgg gagaggtaac catgtccaag gagaagggcc 180

 aaactggggt cttgttgctg gcgggggttt gcttagcacg ctttcagtca aggttgtgtg 240

caaaactaaag cagttgttag acggaagca gcaaaataat acttccgaag ctaaaggaag 300
gcctgaagca tgcaagctgc attcagatct ctaccggttc agtgacaaaa ctggctgcta 360
ctactgtatg tcacggcttg caaatgggt 389

<210> 18018
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-F6

<400> 18018

cgagaagttc cacggcgggg actcctcgtc gtcgtctgac tcggacgacg agaagaagaa 60
ggggtcttcc tcggcgtcgg cgacggaggc catgaaagcc aagatctacc gcctcttcgg 120
ccgcgagagg cccgtccact ctgtcctcgg cggcggcaag cccgcgcatc ttgtcctatg 180
gaggaacaag aagatctcag gcgggggtact cgctgggtgcc acggccatct ggctcctgtt 240
cgacgttatg gagtaccatc tcctcacctt ggtgtgccac tgtctcatcg tctcgtcggc 300
catcctgttc ctgtggggcca acgcctccag tttcatcaac aagtcccca caaacattcc 360
tgaggtagaa atccctga 378

<210> 18019
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-F7

<400> 18019

accacgcgt ccggacgcgt gggcggacgc gtgggcccgtg tgatgcagct ggcgtcggag 60
cgtgcgggtg ttgtgttcac gctgagcagc tgctgcatgt gccacacggt gacgcagctg 120
atggcggacc tgagcgtgaa cgcgctggtg cacgagctgg acagcgaccc caggggcaag 180
gacatggagc gcgcgctgct caagatgctg ggagggaggg cgcccgtgt ccccgcgctc 240
ttcatcggcg gcaagctcgt cggcggcacc aacaatgtca tgctcgtcca cctcggcgga 300
gagctcgtgc ccatgctcat gaacgctggc gccctctggg tctagacacc agggcatcgc 360
gcgcgcgcgt actcgtc 377

<210> 18020
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-F9

<400> 18020

```
acgtggcgga cgtgcacgtg ctggacgcgg cgacggggcg gtggcggcgc ggcgcgcca 60
tgcggtcggc gcgctccttc ttcgctgcg ccgaggccgg cggcaggatc tacgtggcgg 120
ggggccacga caagcacaag aacgcgctca agacggccga ggcctacgac gcgaggccg 180
acgcctggga cccgctcccg gacatgtcgg aggagcgcga cgagtgcgac ggcattggcca 240
ccgtggccgg cgaccggttc ctggccgtca gcggttaccg caccggcgcgg cagggcggtt 300
tcgagcgcga cgccgagtgg ttcgaccogg cggcgccggc ctggcgcgatg ctggagcgcg 360
tgcgcgcgcc gc 372
```

<210> 18021
 <211> 381
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB84-021-Q1-E1-G1

<400> 18021

```
acngacacgt gggctttaca gaatgtgtca aaattactcc tacatttttg caatctgctg 60
gtctgaatgt aaaccaagtc cttacaaggt gtcttttcgc tggactgtgt ttccatgcat 120
accaacaggt gtcttacatg attttggcga tgggtgtctcc tgtcactcat tctgtgggca 180
actgtgttaa acgtgttgtg gtcattgtaa catcagtgtt gttcttcaag acacctgttt 240
ctcctatcaa ctccctcggg actgcgattg cacttgccgg agttttcctg tactcacagc 300
tcaagcgact taagcccaag ccgaagaccg cttaaataag gattgtaatt ctcatctctt 360
tgtgttaatg gagttaaaca c 381
```

<210> 18022
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-G11

<400> 18022

accacgcgtc cgccaatcct cactcactca ggcctgggtat tttagctttg tagtatctgt 60
ctcgatctgt gtgtgtgtgt ggactgtgct gttacgttat acgtgcatgt acttttaaga 120
tttctctagc taattgcacg gatcggagag gtagtcactc acgggattat gtgagtttgc 180
aaaaatgtct atacgtatac aatttgcatt gcttgacagc c 221

<210> 18023

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-G12

<400> 18023

acccacgcgt ccgcccacgc gtccgoggac gcgtgggtct caatctctct tgtctccaag 60
tttgtaacct tagccgcca gcttgaagct ccagccgtgc tcgtgtaggg ctgcaggcca 120
tctgggctcc ggcttcgggc atccaccagg cgtcaatacg gtgcagcgag cagcgagcag 180
caagtcaacc agcagccgag cgaccgccga gcacagggca ccaccgagca gccgagccac 240
cgccgagcac cgagtcttct ctgttcttct gggcggaaca aggtcaatcc agggccgtgg 300
tgccgggtgct ggtttttttt tccaacaagt ttatgttggt cgctccgacg ctgcagcaat 360
gaagatacag aaag 374

<210> 18024

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-G4

<400> 18024

acgtccgggc aggacaactt cttgccccgg acggctactc ctcttgaaga cattttcaag 60
tcgatcctct gcttgccctt cctcctaggt ttgcgatgtt tgacggatac atgtgtacct 120
gaagacgcta tgcttaacga ttcaaggagg ctttatgcac caggccggat ttatcacata 180
gtccaaagaa gaacgtgcat gtgcggcaga tatccaccgg tagtcaaac agctgtgccg 240

gtggatggta catttgagca catagtctct tcttgcaatg ccaaagcgga ccattgccatt 300
atttggaattg agagggaggc ccataacgct ttggatctga tg 342

<210> 18025

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-G7

<400> 18025

agaggagcag gcgcataatc agacattcag aggacgtatt cttgagacaa tcttcagcct 60
tagattttctc atgtttcagt atggcattgt gtacaagctt aaaattacag atcataatac 120
ttcccttgca gtttacggct tctcatggat tgtactcttt gttatgggtc ttcttttcaa 180
gctttttact gcaactccta ggaagtcgac agccttgccg acctttgtta gggtttctgca 240
gggcgtcctt gctattggga taattgcagg aattgccctt cttatcgtgc tcacatcatt 300
cactgttgct gatctaattg caagtgcact tgcttttata gcaaccggct ggtgtgt 357

<210> 18026

<211> 129

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-G9

<400> 18026

aaagacagaa gatacaagca aaacgaagaa gctgacacga gacgcctctc ctctctttct 60
cctttatcag agatgatgaa aatggatgta caaaaagatg agcatcgaac gcgcgcgcgc 120
attactact 129

<210> 18027

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-H10

<400> 18027

aggttttctca gaaggaaaat ccattctcaa ttctgaata taacagtgcc atagagaagg 60

aaggtggttag cacggatgaa cttgctcttg cgctgtatgg aatgagctct ctgccagaat 120
 ttctgccagt tctttctgtc attcctgagc ttccatcgga gtcccaacag cagttgcttc 180
 ttctgccagc ggatttaacc aatcgtatct tatctcgggc tctcgcgaga accattagaa 240
 gactcatgta aagccatacg tgcagaaatt ttcggtcctt gcttaatttt tattttacta 300
 ttcttttttg ttcactgcta gaagatgggg attttttttag catctcatct aaaaccaag 360
 atgaatccct ttttttgtaa ccaacc 386

<210> 18028

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-H11

<400> 18028

agaaccccaa ggccaattat gctgcagagc cttataactc tggatatggc atgaatcaag 60
 caactgctgc cactgattct gggtctcatt atggaactgg tgcaacgcat gggtcttggg 120
 gtgcctatga tttgcaaagg gcgtccgggc gtagataagt actgcgaatt cgtcaggtct 180
 ttcaagggaag ctttggccat gcctctatga ttgttggtgt ggatcagatg ttgaacaggt 240
 ggggcacatg tatagatgaa tagctcacac atttgcttta gtttagcttc tatcgggctg 300
 tgcaagggaa catatatctg ttgcatcgag tgtcaatgta ttggcagttt tcgagcgagc 360
 attgaatata 370

<210> 18029

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-H9

<400> 18029

gaaactacct tcccatgat gaacaacttc gaggaggcaa gctggctcca gtgtctcttc 60
 ccaagtttga agaccaatt agtgccgaaa ctgcagagcc aaaggaagtg gagaaccttt 120
 ttggcaacat agcaccaaag aatccaaatt gggatctgaa acgtgatgtg cagaagagaa 180
 ttgataaact ggaaaggcgc acgcacaaag cgttggtgta gattgcattg gaacagcaga 240

gggagaacga agccttggag gaatctcaag attgaccgac ctgtataagt gaccagtgac 300
tcatggcggt tggtcctcgc agcagacgtc attaccttat ttacataatg t 351

<210> 18030

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-A11

<400> 18030

gcctccagtt tggtcagtat cgtgcaattt gatcttgtgg cacttcogcc aactgtcacc 60
atgcagaacg aggagggtaa gactgtggac ctctatgtcc ccaggaagtg ctcgggcaca 120
aacaagatca tcaactgcaa ggaccatgcc tctgtccaga tgaacattgg ccacatggat 180
gcgaatggcc tgtatgagcg gcacttcaca acgtttgggc actctgggtg ttgtcaaggc 240
gcagggcgac tcacacaaca ccttggaca 269

<210> 18031

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-A12

<400> 18031

aggacgcgtg ggcggacgcg tgggtttttt ttttttttcc tgaagatac gattatatat 60
gtctttcatc atatctaag tatgtacac gatacaatga cggacagcca gtcgattcga 120
ttgatctccg caatactacg tacaatgcaa tgcagactca tcaccaccag attgcttgag 180
ctgaacaata caatgaagga tcatcatcag tagacttcga cgttccattg ctgctcct 239

<210> 18032

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-A5

<400> 18032

caccgaacac gttcttggga ccgccgcgc cgcctactt ccagtcccag ctgctcaggt 60

ctccatctgc ctcgagccct ttg

83

<210> 18033

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-A6

<400> 18033

aatgcacttg tatttcttgt acctgcttat tgctgggact atcagccggt ctcttgcacg 60

gatagcttgc t 71

<210> 18034

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-A7

<400> 18034

acgaagtttg agattgattc acacaatatt attattaatc aagtttagatt tgatgaggaa 60

gctgtctagt caaaactgct aaaagcacgg atgagaatgc aacataaata cattagtcag 120

taccatatgt gaggactatg acttcgacat caccaagctt cccttgct 168

<210> 18035

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-A8

<400> 18035

gctatggatg tggaaaagga cgccaatggt gaaagtttgg atgaggacca gaggtagcag 60

ggcaatgaag aggagagga gtcagacgat ggtgcgggtg acgttaatgg tgcggaggag 120

atgaacctga gaattgggga tgtcaacggg ggtgagggaa tgacacattc cttacagcgc 180

tgtgacacag ttgggggcat ggagtttgag acgctggata aacgagagga tgagatcagg 240

gatgagttaa catttgacga ttttcctgca agggcatctt tggaaacgat gacatcatca 300

aacctcctcc aagccatgaa ctcaattccc tcatcataca aggtgtgcgg ggaatgtgca 360

tgatctgccc tctgggg

377

<210> 18036

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-B11

<400> 18036

acatccagat tgtgctccac gagacagatg gacgccgggg gctcggggat gatgaaggag 60

acgacgaaga cggtgaggac ctcgtcatcg tcgccgactg accacacatc accgggatcg 120

atgagcatga ttggggagag gacccagtag cggcatgggc acaatgagag cgaaaggacg 180

gacgtgagcc ctgtaagaca gccgcggcac ctgtgtggaa cgatccggta cagtagcggc 240

ggccaagggt tccatcaaca gcaccattcc atgtccaagg tcagttactt gggccaagag 300

gccgtacgat acactctggc cacccc 326

<210> 18037

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-B12

<400> 18037

attcctgatt attgtcctct tcctgctggg catagtctgt ggtgaggttt ctctggctct 60

gacctacatg cacctttgcg tggaggactg gtaatggtgg tggaaggcct tctttgcttc 120

tggatctgtc tcattctatg tgttcctcta ctctattaac tacctgctgt tcgatctcag 180

gagcctgagc ggaccagttt ctgccacact ctaccttggc tattcactga tcatgcgcct 240

tgcaatcatg ctctccactg gcgccattgg ttcatgctc tccatctacg tcgtccacta 300

cctcttcgcg tctgttaaga ttgactacag gtgtggcccg ctgcctcttt ctggaatata 360

gtcatccgat caagggaata gttaccctct tataaataat acacaataaa tcaaa 415

<210> 18038

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-B2

<400> 18038

agaggaagca ggcgcgtcctc gcctaaagcc ctgcgccccc tctttcggct cctcgctctc 60
cgccacgcg cgacgacgtg tcggcaaaca gtgagtccat cgcaggactc gcgagaggag 120
gggtgggcgcg tgggtgggctc tgcagggcgc ggcgattccg gcgctgggtg cgggtcagtt 180
tgtgcgcatt aagcagcgcc gcgacgagga gcagcgcgtc aaagcggcgg cgcgggcggg 240
agaagagctc cgacgatgta gtcgtctgcg agcgcgtgtg cacctccaag cctatgctca 300
acaatgtaag ggcc 314

<210> 18039

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-B3

<400> 18039

acccacgcat ccggtcgggtg aaggactcgg cgtcgttctt ggggtgttcgt ctgcgggcgg 60
atggcctcaa gctggccacc accgctctgg ggcgacgcac cgtgaggggtg agcacgtgga 120
gggagagccg cgcgaggcgg ggaggcgtct cctccccgtc agtgacgccc gcgtcgccgt 180
cgg 183

<210> 18040

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-B8

<400> 18040

acccacgcgt ccgccacgc gtccgcggat tgctcccaa gacaagcca aatctgggac 60
cataaacaaa ccgcaccga gcggccgcaa atcgggatcg gacggcaatt ccgcaaggcg 120
acgccatcgc aggggttggt gttagcacga ccacgacagt gacagcggcc ggggccgcga 180
cgggtgtcct cagctcactg gtggcggggg cgagggggcg cagtgcgcca cgcgacgggt 240
ggtgcagtc cgctggcaca cggacgaagt cgagcccgcc cgatttgtcc gcaagtgcga 300

caagacggag cagcgcgtcc gcgactg

327

<210> 18041

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-B9

<400> 18041

caactgtgga acaacacaac actgtcgaag tgccacacgc ggctcctgta aaggaacctg 60

atgctgttgc tcagataagt gagaccatgc aggaacagat catttctact gaaagccatg 120

gcaatgcaca acgcaagcaa cagataaggt gcaatgagtg tgatgtacac atggaggaca 180

aacgtttacat agatcacagc tcgagttggt gggacaaaca caactggaga ctccacataa 240

aatggggccc gcctctca 258

<210> 18042

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-C2

<400> 18042

cgcgtccaca ctcagcgcta gctgaggacg gtacagcggc acagaggtgc gacgtacgac 60

gacgacgacg caggcgccac acatggcatc ccagctctgc cgccgccgta ggcgggttcc 120

acgggctcgg tggcgacgcc gggccgatgt cagcgtggc agcgtggcg tccgtgaggg 180

tgggcaagga gaggtcgtcg tcgcagggca tccgctgcga ctagatcggg tccgcaggaa 240

agtgatcatg gtgaccacga cgatgctcat gctattcgcc gggcggttcg ggctggcgcc 300

gtcagcgaac cgcaagg 317

<210> 18043

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-C7

<400> 18043

cggagacagc ctggaggagt tcctgaccaa ggcgacgccg gacaagaacc tcatcaggct 60
gctcatctgc atggggggacg ccaggggggac gatcgcagtc aaagtccgcg cagcgtcctg 120
cggcgagagc gcctgtgtca agtccttcgg cgacgagcag ctggccgtcg acaggcgcg 180
taacaggctg ctctttgagg ct 202

<210> 18044

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-C8

<400> 18044

aacagggtca agcttctcca taagaaacaa tggaaggatg agatccgcac gttgaaggag 60
atgaagaaga gggggaaaac tgatcgggat cattatggct atgctaatat cgctggtcgg 120
aacgatcagg atcctcctcc agagaatgta tcagttccct tgctgacat ggtgcgctcc 180
ccttcatttg agtatcacia tcccacatac cctgcccgt ttttggagtg cacctcaact 240
gtcctatcaa cgcctatctt ggatgcgcac ggatgggatc atgaactgtg ttatgatgga 300
gtgagccttg aagagacact ggctatcctt 330

<210> 18045

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-D1

<400> 18045

accacgcgt ccgacccaat ctcccctaga ccagaaaaat tcccagttct ttggtcgcg 60
tcagagaggc ggcggcgatg tctgggcgt gggagggcg cgaaggctct ggcaaggcg 120
gcgcgaagcg ccagcggaag gtgggtccgcg acaacatcca gggcatcacc aagccggcga 180
tggggaggct ggctaggagg ggtggcgtga agcgcacgc ggggctcatc tacgacgaga 240
cccgcggcgt gctcaagatc tgttctcaga acgtcatccg cgacgccgtc acctacaccg 300
agcacgcgcg ccgcaagaag ggtgacgcc tggacgtcgt 340

<210> 18046
 <211> 108
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-E6

<400> 18046

cctcagtgtc acagctcaca agagcccgtc gtcagtcgtc agtcgtcaca ctagctcgtc 60
 agaacctaca aggacgcggc agttggtgcg tacgagcaga cgtacgca 108

<210> 18047
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-E8

<400> 18047

agtacctctt caagtacatc atcatcagcg acacaggcgt cggcaagtcg tgccctgctgc 60
 tgcagttcac cgacaagcgc ttccagcccg tggacgagcg gagcatcggc gtggagtgcg 120
 ggaggccggg ggatgatcag cgacaagcaa gccatcaagc tccagatttg ggatacggct 180
 tgtgaagagt catgcaggtc cataactaga tcataggaga gacgcgcggc ggggtgctctg 240
 ctggtctatg agatcactag gaggcagact ttcaagcacc ttgcaaggct ggctgg 296

<210> 18048
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-F12

<400> 18048

cccacgcgtc cgtgagcttc tcccgaacctt tggtcaggca aaggaggcgg ccaacaacga 60
 cgagcgatcg tgaccaatgt catctgcttc ctggtgctcg catccgtgct cctcgccgtc 120
 gcttttcccg tgtctgctct gcggcagcag gtgaagaagg gcggcggcgg tgaacgcgga 180
 cgcggaacga gtgtagcgg aagcggaggc ggcaacctga atccctggga gtgctcgccc 240
 aagtgcgggt cgcggtgctc caagacgcag tacaggaagg cctgcctcac cttatgcaac 300
 aagtgtgctg ccaagtgcct ctg 323

<210> 18049
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-F3

<400> 18049

acggacacgt ggggcacctt ttagcacaat atttcggaca gtattgtgaç cctatatatt 60
tcctaccaaa cttaatttat taagttattg tggctctaca gttcagttta gtggcgccgg 120
acgagattta cgcgagacat atgtgatcctt gtttttgtgt tcctatcatg aatgg 175

<210> 18050
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-F4

<400> 18050

aagatagatg agggcgcacc actggtcaat ttgactcgat cctcggatga caagatcgac 60
tgctgccgct tttctatggg tcgcatgagg cggttcctgt ttggcagggg ggggaaaggg 120
cgcgaaagttc gtacggttgt ctggagcata agcgattggg agacaagtga gtacagaaca 180
cgtcggggga aacctatggc ggcgggcgca cttaccgtgg atgggaagta tctggcatta 240
cgaagccacc gagggtgact tctgtgctgt tgaagtgaac aaaatggaag tttctcact 299

<210> 18051
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-F6

<400> 18051

atgcagatat tcatactcta tttagagacg tacaccagaa atggattgag ggagggaact 60
atgagctttg catagaacac gtgacgggat gaaatctggg acatggtgaa acgcaggggt 120
cctctcaggc tcgcgctatg agaccttcgt tcttgcaagc aagggtgggac tgtcgcgatc 180
atgcttagat agctgggtgg cttctgcgcg caccagaaga cggataaccg tctccaggaa 240

gaggaagagc aagtggaaga ggcattgagtt ctccagctgc caagtaagcg tacctggtgc 300
ctcaaaa 307

<210> 18052
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-F8

<400> 18052

acgtcaagtc gacgacaagg tcgtcaaggc ccagatctgg gacaccgccc gtcaggaaag 60
gtaccgtgct atcacgagcg cgtactaccg cggggcagta cgggcgctcg tcgtctagga 120
ggtcagcgtg cacagcgagt tcgagaaggt ggagagggtg atgagggagc tcagggacca 180
cgcggaacgcc aacatcggga tgatgctggt tgggaggagg gtggacctgc ggcaagtcag 240
ggctgtcccg accgaggacg ccaaggcctt tgccgagagg gagaacgcct tcttcattga 300
gacgtcggcc ctgg 314

<210> 18053
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-G11

<400> 18053

acccgtccaa gaaccgacga caccgagccc ctgtcggttc agactaggca cctgataccg 60
ccggcgaagc agcggagcct cgacaccgag cgcgcgaggg tgcgcggtgaa cgtcgtagag 120
acagcggcgg cgccaagcga cgtcctccaa gacagcttct cgttcccaag gctgcttcgt 180
cctcgccatg tgccggacaa gttaagtggc cagcagctctg cttacttaca cagactgtcc 240
tatatagaga tagtagaata gtagtttcaa gttataaggt cgatttggct agttatacaa 300
cttttggttag ttatttagat aaa 323

<210> 18054
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-G12

<400> 18054

ccaccgaaag aaatcattcg caagattgag gaacctgcaa aacctctacg atttggtgtc 60
cacacgaaca actacaactt gacgctagag aaagtaaac caggaggaa gggaaacctg 120
aatgttgcta cggagatact acaggttgcg cctcccttc ataaggtaca agtccgaaa 180
gcaaaaggcg acactctgga attccaaaag ttctaaga acctttccaa gaccttaaag 240
gaccttttcc ggaaatctca agacctgcaa atgcgaccgg cttcttaaca tc 292

<210> 18055

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-G3

<400> 18055

aagctgttct cggccatggt ggtgcgagg cggcgccacc tgttcctgga cgagctgggc 60
gtgggctacg acgaggccga ggagctacgt ggggggcaag caggcggcgc tgttcaggtc 120
ggccgggatg aggcggcgcc tggcgcgagg caacgtgaag ctgttcaacg ccgtggcggt 180
ggaggacctg atcgtgcggc agggcgcggt cggcgcggtg ggcacgaact ggggcgctcg 240
gtgtccatga accactgaca cgcaagtcgt acatggacc caacgtcatg gagggcgag 300
gtggtggtca gtcctgcg 319

<210> 18056

<211> 79

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-G5

<400> 18056

acctgctcg cctccgcaa cctctgtac gtctgtccc gcagcctcct cgacaacttc 60
cgcttctgct cctcggt 79

<210> 18057

<211> 318

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-022-Q1-E1-G6
 <400> 18057

gccgagccaa gcgtcaagcc tcccctccgc accatgccgc ggcgtcgggc gaccggggcg 60
 gggacttggc ggcgtccccc accagctcgc gctccgtgac tcagacggtc aagctgtccc 120
 accgcttggc gatcgagggc tacgtggcgc gcgaaaggca ggggcgtcgg gaagcacatc 180
 gccagcgaca ccgtcacctg ccgcggctag cagtgggcga tctacgtcga cgcagacggg 240
 aagaatgccg aggagaactc cggctacgtc gcagtcttca gcgcgctcgc gtccgaccgc 300
 accgacgtgc gcgcgctc 318

<210> 18058
 <211> 324
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-022-Q1-E1-G8
 <400> 18058

accacgcgt ccgcccacgc gtcgcccac ggcgtccggtc acttccgcac ttctgcaaga 60
 gagaagggc aggttcatcc agcgacgcgc tggatgcggt agattgctac tctaggacg 120
 agcctttgcg cgagcagctg tacagctaca tgaagcagca gcaatctctg aatcaggact 180
 ccgttggctc cagaggagaa ggctcggctc aggtggaggt gccctcgctt ggccttgatg 240
 aggccaagat tgcggagacg atgaaaggag agctccagaa ttgagggga accggcggtc 300
 ccgtcattc atgcggcagc atcc 324

<210> 18059
 <211> 176
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-022-Q1-E1-H1
 <400> 18059

acatggatac tgcttgccat agaagtttga agattgtaca tttgagtggc tctactggcc 60
 ccaaccccgt gagccattca atgatgaaac cattgaatac agcagatcac tcgatgctga 120

ggaaggcatc acgcttctca agatccatgg gtgggaactg cctccacggt gtgctc 176

<210> 18060

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-H3

<400> 18060

acgcgtccag gcaaaagatg gatctcttca caagaggaga caagctctgg catttattta 60

tgagaagcat atcgtccatg ccttggttgc tgagggtgca gacaggtatg gagaccgaga 120

aaggggcggc acaaggatca tgccgacgtt cccaaggcgg ggagataatg cacctatggc 180

gtacattgag cgtgttta 198

<210> 18061

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-H5

<400> 18061

accacgcgt cggggctcca ctcttcctga ttcagagagt aattgcctgg tgaagccacc 60

accacttgc actcctgagg cttcgctgg taatgtgggt gacagcattg gatcggaag 120

tgacacagag gggatatgtg gtggatgatg accttgacgt tgttggtgtt gtgac 175

<210> 18062

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-H6

<400> 18062

agcggacgcg tggggcagca agaataaaag aagctagcgc ttatagcttg tcagccatgg 60

ccaccgccgc cgcgtctagc ctctcgggt cctccgtcgg gtgctcccgg ctcccagccg 120

ccacgcagac gacaccacg gccctcgtgg tggccatcgg ccgcgcggc gctggcgcgg 180

agcccatctg cgcgtccatg tccatgtcct cggcgagggc gccctacgac cggacgtccg 240

tccggttcag ccccatcaag gagtccatcg tgtcccgcga gatgaccgt cgctacatga 300
ccgacattat cacctacggc gacaccgacg tcgtcat 337

<210> 18063
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-H7

<400> 18063

agtggcgaaa cccgccgcag cttccactga ccactgctcc acaggctcat atccgattcc 60
gatcctaaga cctcagctgc tgcgagagtc acagccgggt caagcgctgg gaagtggcac 120
gggcacggga tgtgtctaga gcactcgcta ccttctcttg atttcccccc tgaggctcct 180
gaccaagggt cctgtcggcc atggatgcgg tgcgaagctc tgcagtcagc gccacgcctt 240
ttggtccgcc gtccgatcgc gaccgctaga caccgacgct gcgttgccct cccggctgaa 300
tcgccgattc cctgtggggc ct 322

<210> 18064
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-H8

<400> 18064

catcggcaag cacatcttcg tctgcgccag tattgacggg aagctgtgta tgcgggcgta 60
tacgcccacg agcatggtgg acgagatcgg gcacttccgg ctctctgtca agcggcaggg 120
caagagcgag catcccaggt tccccaacgg ttggctcatg acccagtacc tcgaggcgcg 180
tcccgtcggc tcggagatcg acgtcaaagg cgcgcgtgtc cacgtggagt ccagccgtcg 240
cggcagcttc gtcattaacg ccaagcagcg ccatgccagc cgctctcgcca tga 293

<210> 18065
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A10

<400> 18065

gcgagcgatc catgtctaca cgtacacgag gcagcagcac caagaagcag ccgcatcatg 60
gcacgcagcg caaagcgatg gagtcgctca ccatgatggc gtccgctgcc gccgtggcgg 120
tggccgcgct ctgcgcgccac ggcagcttcg ccgtgggtcaa gtccgccaaag ggcgacctct 180
gcgaggagcc cg 192

<210> 18066

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A11

<400> 18066

gggccggccc acgcgtccac cttggccgtg gaaccggaga taacaacttt ggattgcctt 60
ctggaacctc cgtgaggagc aactcaactg gtacaattgg cgagccattt tctgcatcag 120
ccaatccata tgaatcgaac aatctaggtg catatggcag cagttctatt tatgggtgact 180
ccacctggag gttcaactca tctgagggtg atatacctcc ttttgggtcat gatcttgga 240
atgttgatcc agatattaaa tcagaaatat cagcaaacta tatgggcaac tatactgtta 300
ataataatca aacaagcatt agctacatac ttttcttggg ggacacttca gaattcatat 360
aaagtgaac ta 372

<210> 18067

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A12

<400> 18067

ccgggcccga ccacgcgtca agctagtga ttatgggtga aatttttggg tctttattga 60
gtgtcggggc agtgtaagta cgtgaaaatc gtaccatatt atcaaacaag taattcatga 120
tccagcatcg gaggtggcca tgtgggttcg ttttcttcc gagggcctaa gaatgcatca 180
taacagagga acgctcatct ttagaagttt ttgagcacta tcatcaacct aggacgcagg 240
tatgttttcg taagttctta aatcgagcgt cgtgtaagat cctttgagtt gattgttgta 300

ccctcgatc tcct

314

<210> 18068

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A2

<400> 18068

gggtcacgca caactccttc gaggaccgga cgccgctcgtg gacgccgtat cacctcaagg 60
cggacgacgt gggcgagacg ctgcaggcct cggggacgtg cgcgttcgac gactgccagt 120
ggctcaacat cgctgcccgg cctgatggcc tcatgtgtgg caagcacgcc tagttatagt 180
atctgtggga gaaactggac tcacgtatat aagtgtgctg tgtacatagt gcggtgatgc 240
catcttgtct gcttgcataat gcatactact gaacatatga tgatg 285

<210> 18069

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A3

<400> 18069

tccgcccacg cgtccggacc taaagccgga aaacttggtta cttgattcaa agtataatgt 60
aaaacttgcg gattttggtc tgagcaatgt catgcatgat ggccattttc tgaagactag 120
ctgtgggagt ccgaactatg ctgctccaga ggtaatatct gggaaactat atgctggacc 180
tgaggtcgat gtatggaatt gtggggtgat tctttatgct cttctttgtg gaactcctcc 240
atttgatgat gagaatatcc ccaatctgtt caaaaaaatt aagggaggta tctacacact 300
tccaagtcac ttgtctgctt tgg 323

<210> 18070

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A5

<400> 18070

gtccagccac gcgtccggta gcgaagaggt ttaagctggc gacaggagcg ttccaactca 60
aatacaagga cgacgaggac gagtgggtga tcctggcgaa cgacgccgac ctccaggagt 120
gcgtggacgt cctggactcg atcagctcgc gcagcgtgca gctgcagggtg cgcgacctcc 180
cctgcctcgt cagcagctcg ggcaccagca gctgcggctt gcacgtggga tgaagcgcgt 240
acctcaggac agcaggatgg aagcccgggt 270

<210> 18071

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A7

<400> 18071

gggccgaccc aaacgtcaag tggttacact acctacgctt gccaaccaac tttcctagca 60
agctagtgtg ttgccctctg cagtatcaca tacagttttc atcagaatag ttgattcagc 120
tgacttgtct tcattgaaag gtatgcctgc cgaggaatgc atcccaacta ccagacctgg 180
taacttcaga actaatgtgt gccatggaag tagggaacat gtggatccat atgcggcaca 240
gtctactgat acccacggta cctcagactc aggacttcac ccaatttgca gtcctgctaa 300
cattggagat ggcttttatg aagctaccgg gccttg 336

<210> 18072

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A8

<400> 18072

acccacgcgt ccgccacgc gtcctgact gacatggata gcaccaacgt gtatgcttac 60
atctcaataa tcgctctaatt tgtttgcatt ccacctgcat tgatctttga agggcccaag 120
ctaattgcagc atggatttag tgatgccatt gcaaaagtag gtttgacaaa gtttgtcagt 180
gacctattct tggttggact gttctacat ctgtataacc agattgctac aaacaccttg 240
gagcgagtgg ctctctgac acatgctgtc ggcaatgtgt tgaaacgtgt ttttgtcatc 300
ggttttctcaa tcattgtttt tggcaacaaa attagcacac aaactggaat tggcacgtcc 360

attgccctag ctggtgt

377

<210> 18073

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B1

<400> 18073

tgttggttta ctgagtggca ctgacactgt gcggtgtggc tcagatgtta aacctgctcg 60
tcttcctgt gtttcagca ccccgacta catcacgccg gagatgccgc aggtggccaa 120
cgagtgcgac gacgacgaca aggtggggaa gatgggtttt tattctcttt ttttgagcgt 180
gggtatatca tatatcatat atgccagtgc agtggttagtg tgctgccttg ttgagctcca 240
ctgtttgttt ggtttcgtgc atgagaccat cccctgccca aaatctccgg agaagtcagc 300
gaaccctcg 309

<210> 18074

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B10

<400> 18074

ccgggcccga ccacgcgtca acgcatcaag gccctggcg tctcccgaaa atccaaaggg 60
ccccctcccc cgcgcctccg cggggacctt gttaacaatc tgggcccgc atccagggggc 120
attctgcaaa gggcgagccc ggttcgttct cgacctttcg tctcgtcttc gcccgcccgc 180
ccgaccccgc ggagccctag cctagccttg ccccgatcgc ggattcccc tggggcgccg 240
cgcgcccgc ccccgcatga tgaactgcga cggatgcgga gaccccgtag aggaattcct 300
gatctccggc tccgtcgact acgaagatct agccatcttc tgcgaccgac gg 352

<210> 18075

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B2

<400> 18075

cgatctacga ctactactag ctggtacaca tactagccag cctgccaacc agcttgccat 60
ggcgcccacc gtgatgatgg cctcgtcggc aaccgccgtc gcccgttcc aggggtctcaa 120
gtccgcccgc agcctccccg tcgcccgcgc cagcaccagg agcctcggca acgtcagcaa 180
ccgcgggagg atccggtgca tgcaggtgtg gccggcctac ggcaacaaga agttctagac 240
gccgtcgtac ctgccggccg ctgtccacgg gcgaactgct gaagcaagtg gactacctgc 300
tgcacaacgg ctgggtaccc cgcct 325

<210> 18076

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B3

<400> 18076

cgtccacca cactctgcc cactcgtccg cccacgcgtc cggcacgctc aggaacccag 60
atgacccgaa gaacgcgcac ctcaaggcgc tggacggcgc cggcgagcgg ctgatcctct 120
gcaaggccga tctgctggac tacgacgcca tctgccgcgc cgtgcagggc tgctagggcg 180
tcttccacac cgcctcccc gtcaccgacg acccggagca aatggtggag ccggcggtgc 240
gcggcaccga gtacgtgatc aacgcggcgg cggaggccgg caccgtgcgg ccggtggtgt 300
tcacgtcgtc catcggcgcg gtgaccatgg accccaagcg cggggccgac ctcttggtcg 360
acgagtcc 368

<210> 18077

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B4

<400> 18077

caaaaaacat acgtatgacc tacagaccat caaaaagatt cagcagaaaa gatctgtcgc 60
aaaacgcatg ggcttgaagg acctgaaaat gggatataac attgacatcc attattacag 120
cgtgaggctt aaagctgcac acaagtttct taaagccagg ggaccatgtt aagataattg 180

tgaacctgaa aggaccgga

199

<210> 18078

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B5

<400> 18078

cgccctccgcc catacgtctg gtggatTTTT gatcgatatg gcttggctat agttttgtcc 60
tgctgttgac ggcgttcagt gccggtggga tgggccttcc tacatgtcta agtaactttt 120
cgaaagcatt ctagtcadca tggtcagtct gagctatcag atacttgaca ctcaactata 180
ccttcccaaa tgtcagcgtt gacctccctg aatcactatt gccgtctctc gcatctacaa 240
cgagttgatg cgat 254

<210> 18079

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B7

<400> 18079

acccacgcgt acgcggacgc gtgggcggac gcgtgggctt tactcagagt ctagaactag 60
ctttttgctt tgctcaccac acaaacggca tcagatggcg tctaccatca tggtagctac 120
ctcccgcatc agtcgcggac aagacgccgt ttcttggcca gggtcgctcc gccgcggccg 180
cctccaatgc cagccccctc cgcgacgtcg ccgccgcgc tgctggcggg cggatcacca 240
tgggcaacga cctgtggtac ggccccggcc gcgtcaaggt acctgggctc cttctccgcc 300
cagaccgccc tctgtactga ccggcgagtt tccccggcg 338

<210> 18080

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B8

<400> 18080

actcaccacc gcctgtgaac gaagctgaat ctggaaccct ggagagtgga gagtgactgg 60
gagtgggaga taaccgtgca gaaacccccg acgagtgact cgcacgccc gccggctcct 120
cgccgcttgt gaactgaatc acggtacatg taaaactgaa tctggcagag cacacacgcg 180
cctaagccta ttagcgtcta tagacttcgc agggctatgt atagtagata ttagattga 240
gaccctgctg agcatgtacg tgcagtatgt tcctagtcac ttgtgtatca ttactagtaa 300
tgcagtatcc ctctgaaat aaacgtcaaa accccttcct gctgcttcaa gagaagcata 360
caaaaaaggc gggcgctct 379

<210> 18081

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C10

<400> 18081

ccggggccggc ccacgcgtcc acaaggttta tggttgtaat cttgcgaaga ctgtaacaac 60
cgaagttctt aaaaacttct tctccgaaaa ggggaatatc ctcaagtcaa cagtctccca 120
cattccgggg acctccaagt caaaggggta tggttttgtc acattctctt ctgacgaaga 180
agttgaagct gctgttgca ctttcaataa cgcggaattg gaaggacaac tcattctgt 240
gaatagagct tagattatca caaatttgca ggggcacccg atgatgggga atatcttggc 300
gaagacatgt cgtaagaggg gatgttt 327

<210> 18082

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C11

<400> 18082

acagcaacca acaagtcgtc caacgtccag gcttttctgt tttgtttctc tctcacgcaa 60
gtcgcaaagc aaagcgtccc ccaccatggc ttccacgacg acgacggcat ccaacaacct 120
ggcgggctgt tggctcggcg agctctctgc ggcgctgcat gggacgtggc aggcgggtggc 180
cgtggccgcc acccacgggc tcggcgagga cgacgacccg cggtgcccgt gccagcagca 240

gcagaggccg tggcgaggcg acgacaggag cagcagcaac aacaaggcgt tgcgaggagc 300
 cgcggtggcc gggacggaca ggccggaggg ggacgtcgcg aggtgcggcg gggccatgtc 360
 c 361

<210> 18083
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C12

<400> 18083

ccgtaatcct cctctagggc aggttcgccg gccggaacgc gcgtgatcgt gcgcgtgttc 60
 gcgatggcat ccgcgaccgt cgttatgggc actgcctcct cgccggtctg gacaagtacc 120
 ccaggacggt gattcgcaag gactccacca agaacacagc gaagtactcc cgcgtaagt 180
 gtttcatcaa gctcgtcaat ttactcatc tcatgcgcac ccgccacacc ctccggcgtca 240
 atttcaaaga cgtcgcctcg ggcgggcccg acacgctctc cacacgggac aagatggtcg 300
 aagcctgcaa ggcctccaat gttcgctcgc atgagacggt caagac 346

<210> 18084
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C2

<400> 18084

tgggcggacg cgtgggggtgg caccaaattc tgttgagcaa gcagacgtct cttatgaatc 60
 aaaggagggt cagaacttca cctatcagaa gcagcctgtt gaacttggca agcaagatac 120
 acagttaaaa ttcaagttag atgctgctgc tgaaaatagc tcagctccag ttcaaacagt 180
 tccgctatct gtcggtggcg caaaacaaca tagtgcagct aacagacaaa cgcgacagca 240
 tgttaaggct caaaccaatg gagcaagtgg ctactcaaat gagagcaaag gtagcgaagg 300
 caagaatgat gttgtccatc aatcagc 327

<210> 18085
 <211> 87

<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C3

<400> 18085

gttgtagga acgtatttgt gtaatgaatt ctgcaaagta tgatctcaac tgcagttgtg 60
tagcctttct cttacagtct tactgtg 87

<210> 18086
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C5

<400> 18086

acccacacgt caacggacgc gtgggatcga aaacagagga ttttaagtac tattcgaaat 60
tcgggagaat tgcgtaaagg gacccttgaa caactcgaaa aagctcgtat tcgattacag 120
aaagtcgaac tggaagcaga tgagtatcga atgaatggat actctgaaat agaacgagaa 180
aaagaaaatt tgattaatgc tacttctatt agtttggaac aattagaaca gtctaaaaac 240
gaaacccttt attttgaaaa acaaagggcg atgaatcagg tccgacaacg ggttttccaa 300
caagctgtac aaggagctct aggaactctg aatagttggt tgaataacga gttacatttc 360
cgtaccattc gtgctaatat tggcattctc ggggc 395

<210> 18087
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C6

<400> 18087

acccacgcgt ccgcgacgc gtgggctttg gttgtgtata tggggttgtc aacacttcca 60
tcacttgctc caaagttaat gaagcacggc ctgccaccag ataccctgc tgttgacagta 120
gagcgcggga ctacacccca acaacgaacg gtgttcgcct cgttgaagga tcttgtggat 180
gaagtcaagt cagccgatct agtttctcca actctaataa ttattgggaa agtggtatcc 240
ttgtcacccct tctgggttga gtcacttgaa catgatgcac tgaaagttca gagctcgtaa 300

gcaactgacg ccagatgaca acagattttc ttgggttttta gtgactggcc aatacttgag 360
 aaatgcacga tcccacgac tggaagcaca 390

<210> 18088

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C7

<400> 18088

aacctctggt cgaccttggg tgcagatgtc gtggtgatct tgcaaaacca catcgacat 60
 gcattgattt ttgggttcgt actacaggtt caaacaagtg tgagatatgc cagcagggtg 120
 ctgtcaatat cgccccctca gaaacgcaat caagtacaag ttattggggtt tggaggggtg 180
 attccactta tggaatggga cgaggaggac gagaaagggg atgggttcagc ccactttggg 240
 ttgcatttgc aattctgatt ggtggtctcg tattggatgt gcggagaccc gtttctcttg 300
 gtgtttccgc acgtcctgtc cgtagactaa gtgggggttct aatagttcac ggattcggca 360
 gcgcaccttc 369

<210> 18089

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C8

<400> 18089

aaccgtcgtg gtttacttct accccgccga cgagacgccc ggatgcacaa agcaggcgtg 60
 cgcgttcagg gactcgtacg agaagttcaa gaaggccggg gcggaggtga tcggcatcag 120
 cggcgacgac gcggcgtcgc acaaggcgtt cgcgcagaag taccggctgc cgttcacgct 180
 gctgagcgcg gaggggaacc gcgtgcgcaa ggagtggggc gtccccctcg acctgttcgg 240
 gacgctgccg gggcgccaga cgtacgtgct ggacaagcag ggcgtcgtgc agtacgtcta 300
 caacaaccag ttccagcccc agaagcacat cggccgagac gctcaaggat cctgcagacc 360
 ctctgaat 368

<210> 18090
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-023-Q1-E1-C9

 <400> 18090

 ccggggccggc ccacgcgtcc acacaatgca ttgtagggtta taaaccacca accctatgat 60
 agcaaagcag atgtgttcag ctttgccatt gttctctggg agctgataac gtccaagatc 120
 ccatatgata ccatgacccc tctccaagcg gctgtaggtg tgagacaggg gttgcgcca 180
 ggacttccga acaagacgca cccaaagctg ttggacttga tgcagagatg ttgggaagca 240
 gatccatccg accggcctgc tttctcgggc attttagccg aactggagga tcttttggca 300
 caagctcagg gaacatcggg aaagacagtc caagatccat caaactcg 348

<210> 18091
 <211> 180
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-023-Q1-E1-D1

 <400> 18091

 gcgtccaggt cgatgctgtt attgtgtgaa ctggtgagct ctgttagcct gtgcactttt 60
 atctatattat ttggtacctt cttgctatct cactttctgc aatacaagaa tgctgtaaga 120
 gctatatgtt aaccttttgg cattgttaat ttgatttttag gaagtcgtat acttatcttc 180

<210> 18092
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-023-Q1-E1-D10

 <400> 18092

 aagaccgggc tggcctgtct gggcggctgg gaccgcgtga ctttcgagcc cgtggcggac 60
 gtgcacgtgc tggacgcggc gacggggcgg tggcggcgcg gcgcgcccac gcggtcggcg 120
 cgctccttct tcgcgtgcgc cgaggccggc ggcaggatct acgtggcggg gggccacgac 180
 aagcacaaga acgcgctcaa gacggccgag gcctacgacg cggaggccga gcctgggac 240

ccgctccccg acatgtcga ggagcgcgac gagtgcgacg ggatggccac cgtggccggc 300
gaccggttcc tgggcgtcag cgggt 325

<210> 18093
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D11

<400> 18093

accacgcgt ccgccacgc gtccgcggac gcgtgggttt tagagatcac attacctcat 60
aaaattgctc tggctttcta taagatttta tcgcacaaa ggtgccagtg atgtacaatg 120
tgctaggcta gtacactatc cagatggccc tttctcctag agaatcctac cattctagtc 180
gtcgatctcc ttacagcgt cctttgcgag cctcgttaca taagcggcag caatggctgt 240
aaacaataat ccaacgccc gtgtccatag ctgttcgttt cctcccaaac caatttcgga 300
ctcatcttgg attaaagctc gccgaatgc accggcactg acgtaagccc atgaa 355

<210> 18094
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D12

<400> 18094

ccgggccggc ccacgcgtca acccaagcgt ccgctctctt gctcgactc gcggagatcg 60
aagagaagcg caggaggccc cagcactagc gccgccccgc cgcgcgcatca gacatggcgc 120
tggccgctcg cctcgtctcg cgctcccgtc agctatatctc ggttcaagcc actttgggga 180
atggaggtgt cactcaagtt cgctcctttg ccaaggatgc agctccagct gaccgtcctc 240
ctgtcagtgg ggatgatctc ctgaagggca tattctttga ggtaaagaag aagtttgaga 300
cagctcttgg ggttcttaac aaggaaaaga 330

<210> 18095
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D3

<400> 18095

gcgTccaatt tacattatgg tttgctggcg gctacagggg agatcttaaa agctggcgaa 60
ggcagtgatt acagcgactg tatgttggag gggcatcttg ggaaatacaa ttacggtggt 120
aatacatttg aagcatcagg ctacacctct ggtgctagtt attccaagtg cagggctctt 180
gcagttagag ctcttaaagt tgatgagcca gcatgcacac acatgaaatg cacatttggt 240
ggtgtgtgga atggtggtgg tggagatgga caaaacaatc tttttgtggc ctcttttttc 300
ttcgataggg ctgccgaggc tggttttgtg gacccaaaag catcagtttc taagggttaa 360
ccttc 365

<210> 18096

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D4

<400> 18096

ccaaacttcg gctcgctca gatgcttcgc cagcgccagg gccaccagtc tactgcatca 60
tcatcatcat cagcttgggc tattaccaca gctacgatcc gtcgccacct gtctactgca 120
tcatcctgtt ccagcccgcg gctgctcatc aagcataggg cgacagcggc atcggcaccg 180
gcaccggcac cggcaccggc acagaatgag aaagaggteg tcttcgtggc tggcgccacc 240
ggaagagttg ggtcccgggc cgtaagggac ctcatgaagc ttggcttctt tgtgctcgct 300
gcc 303

<210> 18097

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D5

<400> 18097

acacgtccaa agtatgtcgg aaagaagcac ggtgacatgg aattccatga tcttcgggct 60
ggcgaattcc ggtcactgcc aagaagccat cggctctctt aaccggatgc tgtgcgacgg 120

agcaaggccg gatcacctga cggtcacccg cgctctgacg gtttgcagct acgccggcat 180
 ggtggagctc gggaagggcc tgtaccgcgc catgcacgaa gaacacggca tcgagccgag 240
 gctggagcat tgcgcacgca tgggtgcatth gcttggccga cccggctggc tcgccgaggg 300
 cttatgactt catcaaaggc catgccccct ggagcctgac tgccgtcctt tggggggcgt 360
 ttgcgggggg c 371

<210> 18098

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D6

<400> 18098

aaccacacgcg tccgaggccg cgggctcct cgcctgcggc aagagctgcc ggcttcgctg 60
 gatgaactac ctccgcccgg acctcaagcg cggcaacttc acggacgacg acgacgaggt 120
 catcatcaag ctccacgccc tgctcggcaa caagtaagca ctacgtctca gttcgcgcgc 180
 cgcccgccgg taccattatt tccctectcc tcgactcaat cattttccca tcgtcggccg 240
 gcccgtcgcg cgcaggtggg cgctcatcgc ggggcagctg ccggggcgca cggacaacga 300
 gatcaagaac tactggaaca cgcacatcaa gcgcaagctg ctgaccgcgc gcatcgacct 360
 gcaaacgcac cgccggctga gcgcggcgcg cggccctcac cgcc 404

<210> 18099

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D7

<400> 18099

agagcgagcg agagagcgct ggtcatggcg tcaactgtctg tcgccgccgt ggcggccacc 60
 atagcgatgc caagcagcag cgggtgggaga gggcgccgct tcagggtcgc gtccatggcc 120
 acccagaagg gccagaagcc gacgcccga accgtctccg gcacgagaag atcgggcacg 180
 acgacggtgt tcccgggtgg cgagccgggc ccgcggccgg cgacgacgag cggcaaagcg 240
 ccggttaagc tgctgacgaa cgtggagaag ctgcggctgc tgaccaacgc ggagcgcgcg 300

ggcctcctgt ccgcggcgga gcgcgcgggg ctgtcgtgt ccgcgatgga gccgctgggc 360

<210> 18100

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E1

<400> 18100

ggcttcctcg gggattggtg ccggtcgggt gactgctccg acgcgggctc ggggtgtgtgc 60

tggtgggtggg tttgcttcat tgtcgtgcat tgcgtaggg aaggagccgt tatcaacact 120

gcgagccaga attaacatga acggcagcta tactottaca cgaacatcga cacacaccta 180

cagtgctaata gccaacggcg gggaaacgct gttcaagttt ctgagcagtg accgtgatcc 240

gcgcgggcagc agtaaacactg gccttgcgta cggtttggtc gtcccaacct tcaagccgat 300

actaatgcat cgagctatga ttagcaat 328

<210> 18101

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E10

<400> 18101

acggacgcgt gggcaaakat ggcgaccacg gcgtttctac ccccgcccaa gctgccgctg 60

caggggcgctc ggttcgctag ccccaaaacg gcgggacgta tcagtgtcag ggtccctccg 120

gcgccagcgc aacaagagca gcaggtgaaa gaggaggagg ccgacgcggc gagcgtgccg 180

ccgccgcagg ccgcggataa ggacgcgagg aagggggacg cgcagtcctt gccgcggcag 240

cctttggcgg agagcaagaa catgagccac gactacaggg ggcagtggct gaacaacagc 300

acgcgacacg tccgcatcta agctgcgtag atcgacccgg ttaccaacgc g 351

<210> 18102

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E12

<400> 18102

cggaacgctg ggcggccatg agtccatgac acactcctgc tcgcggtggg ggtgctcatc 60
ccggcgctgt tcttgctcgt gccctcgcg caggaggggt acatctcaga cgaccacgac 120
gtgttcgctg ctgaaatcaa agttggtttc actttggaaa agccagtgtc attccttact 180
tctcacatag acaaactagg gaatgccata tttgaagaga ttggtgtacc taatagcaag 240
gtatcatcgt ttcaatgcac ccattagcct ttaaatactc cacacatgtt gtttttggtg 300
ttcttcctta tccaaaagat gcttcaataa gtttgccagc tccaagtgtg t 351

<210> 18103

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E2

<400> 18103

tggaacagct gggctctagg gattaatagg attggccaaa ctcggaata cgtgctttat 60
gaccagttca attcaatgtt tggctcacac agcaatccgt gatgaatact tccttggtga 120
ttatgcacaa attatatgcc gggctactcc attcggactg aatggctcgac ttgccttgac 180
gtttggagaa ctgttgagga gattaagcga taccgatcgg gaaccagttc caccacagca 240
gttcaaggaa taacttgcac gttttgctcc gcaacttggg ggctttaatc aacacgattc 300
atatgcactt cgtgcttttt taccggatgg tctccaat 338

<210> 18104

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E3

<400> 18104

tccgcccacg cgtccgctgg cttaaagcaaa attccatgtc agctacaggg gcagaacact 60
gaccgatgct ttacagcagg ttctttctaa taacttgcgc tattttcttga ggcggccgac 120
aacagaggac gccagcttct agccagatag atgatcatga agcctcccaa ctttcttatg 180
tgggtggtatt cacatgaatt gaataccatc gtcaaagcat ttgaaacacg cacaataatt 240

tgttaagatg gggggaattg tacttgatgt tatggcacca caccaattcg aagtattttt 300
 tgttccaagg catgggaatc tgttg 325

<210> 18105
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E6

<400> 18105

cccgggccga atgatacatc gactcaccat atcacaggca gctcgagaga gagagagaga 60
 gaaagatgtc gtgggttcggg caccatcacc acaccagcc gggtcccccg gcgtcaggcc 120
 ccaaccaggt gttcaagatc ttctgccgcg ccaacgagaa ctactgctg accgtccgcg 180
 acggcacctg cgtgctggcc ccggtcaacc ccaaggacga ccaccagcac tgggtacaagg 240
 acatgcgctt cagcaccggt gtcaaggacg aggaaggcat gccggcgctt gcgctcgta 300
 agaaagccac cgggctcgca atcaagcact ccgcgggc 338

<210> 18106
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E7

<400> 18106

agcgactcag cgagcgagag cagcacacac tgcacgcagc tagctaggag cagcagcagc 60
 ggcggcgatg gcggcctcca tgatctctc gtcagctctg gcgggtggcg ctcagggcct 120
 gccgccccctc ggccgcccgc cctcctcctt cgccgtcgtc tgctccaaga agaagatcaa 180
 gaccgacaag ccctacggga ttgggggtgg cctgaccgtc gacgtcgacg ccaacgggag 240
 aaagggcaag ggcaaggcg tgtaccagtt cgtcgacaag tacggcgcg aacgtcgacg 300
 atacagccca atctacaacg aggatcactg gtctcccacc ggcgacgtct acgtcggtgg 360
 aatcactggg cttctgatct gggccggtca cctcgctggg a 401

<210> 18107
 <211> 278

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E8

<400> 18107

agcgaggagt tcgtgattgc gtccaaggac gacgaggctg tggacgcctg agcgagcatc 60
 cacgcgccag catgcaagca gcgtcttata tgggcccggc ccatcacggg gtttcttctt 120
 ttaatctggg actttgttgc tgttggacga atgaattccc ttcgatcggg tagctttaat 180
 ctgtctcggt agtgtgtcgt gttcgtgtag caccatgcca cacaccagcc gtgtgctctg 240
 tcacgtgggg gccactcctg gggctctcctg ctgctgtc 278

<210> 18108
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F1

<400> 18108

ggaaaggcca tggaggtcac ggaggccatc accaaggccg ccatgaacgg cgggcgcaac 60
 cttgtcacag tgccgctaac taagtactcc acattcccgc acagagctga tgctgactat 120
 ggagcagcca atgtgatgtt gacgcctgct tgccctgaat ctggtgttat tgctggtgga 180
 gctgtgaggg ttgtgttgga gatggctggg gttgaaaatg ctctgggcaa gcagctgcgc 240
 agcaagaacc ccctgaacaa cgcccagacc actatcaggg cgacgcagat gatgaagcag 300
 ttcaaggatg tcgctgagga ggtggtattc caatggagga gctgtggaaa tgataaaaac 360
 aattcgaaac caagggcccc cctttttagt cattaattct cct 403

<210> 18109
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F10

<400> 18109

ggcacgccgg cgaaaccaac gtacaggag aggagcagac gaagctggac gtcctgtcca 60
 acgaggtgtt cgtcaacgcc ctcgtcagca acggtcgcac ctgcgtccct gtgtccgatg 120

aggacgacga aacaacgttc gtggacccta agctgcgtagg aaggtactgc gtctgccttg 180
atccccctcta tcgtcctccc aacatctact gtggcgcttc catcggaacg atctttggga 240
tttaca 246

<210> 18110
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F11

<400> 18110

acgaaggtagg ggaactagac tgtggtagg tgcacgcgta ttcaagcagg cgctcttgct 60
tttcgtccac aacaagttct ccatgtgccc tgggcacgcg acacatgttc ggggtggtagg 120
gcattaccgt cacctccctc acgtcccgtg ccgcgcgggc cgaggtctgc ttctctgcct 180
tccgcaacga gcagtccgcg gggtagccg ccgcctacga ctctctgacg ggctccccgg 240
gcgcctcct catcgctctc ggcccaagat acatccacgg gctcgccggc ctctcccacg 300
ccaccgcaa cgctggtcg ctcccatga gtcgggatt ctgcgaccag gctgacgccg 360
gc 362

<210> 18111
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F12

<400> 18111

cgcgtagcc cgagcgtagc caccgggccc tggcgaggc cgagtggtg gggcgggccc 60
acgagtactg gggcgagatg ccgtgcgcat tcgtgacgct caggagggc gggcgggcca 120
gcgttcgcgc cgatgaggtg gtggggttct gccaaagcgc cctgccgcgg tacatggcgc 180
cccggaccgt ggtgttctg ggccaatctg ccgaatacag cc 222

<210> 18112
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F3

<400> 18112

gtcatgtggtt gttcggagcg ggcagcagca cacagcccca tcccaatcct agtcgatctt 60
cttccccctcc tcaaggaaga aaagaagctg aaccatgggg aagagaaagt cagctgctaa 120
gccacctcct aagaagcgga tggacaagct tgacactgtc ttttctgcc cattctgcaa 180
ccacgggaggt agtggtgagt gccgaattga catgaagaat ctgattggcg aagcatcttg 240
tagaatctgt caggaaaact tcagcacaac tgttaatgca ctactgagc ctattgatat 300
atatagttaa tggattgatg agtgtgagcg tgtcaacact gttgaaggcg acgatgatgc 360
gtgagcttgc cccatgtgat gaaactgtta ccctacaatc gta 403

<210> 18113

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F4

<400> 18113

gaaaccggca agcccgggcg gtccgtcgtc cggatccgcg gcgtcaccga cgacgccgcc 60
gccgccttcg tccgctcct ctactcccgg cagggtgtcg gaggatcagt atgacgacct 120
tgaggagcac gccgtgcacg tgccggtgcc tggcgcacgc gtatcaagtg ccttggtcta 180
aacgggcggt cgagggcgcc a 201

<210> 18114

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F5

<400> 18114

ctccgacaag cgaagcagag cactggcatg agcatggacc gcatggcgcg gcgttccgtg 60
tccttgctcc tcgtcttggc tctcctggcc gccgcggcgt cggcggactc gtggctgtac 120
gagaagttca cgacggaggg caacgtgcgc gcggactaca acgcgcaggg gcagcaggtg 180
acgtctctga tcttgacgca gcagtccggc ggcgcttca gctcgcggca gaagtacctg 240

tacggggagt tcagcatcca gatgaggctg atccccgggca actccgcggg caccgtgacc 300
 tccttctacc tgtcgtcggg cgacggggccc gggcagcagc agattgacat ggggttcattg 360
 ggcaacccca gccggcagcc cgtgg 385

<210> 18115
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F6

<400> 18115

tccccgggccc actcatatcgt caacggagcg gtgggtgacg actgcaatca ggcctcaaatt 60
 taatgccttc ctggaagggt ttaatgaact cattccacgg gagctgatat ctatcttcaa 120
 cgacaaagag cttgaacttc tgattagcgg tcttccagat attgacttgg acgatttgaa 180
 agcagataca gaatattctg gctacagcat agcctctcca gtcattccagt ggttctggga 240
 aatcgttcag gggttcagga aggaagacaa agccccgggtc ctccagttcg tcaactggcac 300
 ttcaaaggta gcgttgggag gttttattgc acttcaaggg atctctgggc cac 353

<210> 18116
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F7

<400> 18116

acccacgcgt ccggatctac gcggcgagcg ccagttcctt aactcaacg ccctcaacga 60
 gttcgatccc aaggctactg gtgttgactg gaggaagaag cttgagaccc agcgggggtgc 120
 tgtgcttgcc actgagctca agaacaatgc caacaagctt gcacgctgga ctgcccaggc 180
 gctgcttgcc ggcgcagaca tgatgaagtt gggttatgtg tcacggctgc acccagcga 240
 ccagtacaac cattccattc tcagtgtgat cgggtacaag ccaagggatt tcgctgcaca 300
 gatcaatctc aacaccgcaa atatgtgggg gatcgtgaag tctattgtgg atgtctgcac 360
 gaagcctgga gaaggga 377

<210> 18117
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-G1

<400> 18117

tcagagtctc atacacactt ctaatctggc cgggaaaact gacattggaa cgtatcagta 60
tcacggtcac gtcagttgac taatgtgtga ctgtgagcgc gtgtgacagc ttttacgtac 120
acgggatcgc tgaaaaggat acgtatatag ctcgctatac ggtcggcccc cgtaaagaag 180
gaaaatatgc tcggctcacg agcgtctctg cttcttgctt aagcctgtct tcgcttggtg 240
gccgtagcag tatagtttta ccggacacac ggcttatgga tgctc 284

<210> 18118
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-G10

<400> 18118

gggccggggc acgcgtccaa agcaaactta gccaccaagg caccaaccaa gagccatggc 60
atccccgttc tgcgcgctg ccgcgcgttg ccgcctcgcc gtccccgccc cgtctcctcc 120
cgccgcacgg gcgcctaagc cccgacgcgg gctgctggcg gtgcgcgcgg aagccggcgg 180
tgggataaaa ccggccatcc ggaaggacgg ggggaaagtg gttgacaacg ttctcaacgg 240
cggagctcgc caagccgc 258

<210> 18119
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-G11

<400> 18119

acggacgcgt gggcggacgc gtggggcagt ccaaacaaca atgtccttgc tgctaattgca 60
tgccagttta agaatgtcgt tgctattgta gaccctccac gtgttggcct tcacctact 120
gtgatcaagg cattgacgac gcattccacgt attccacgtc tagtgtacat ttcttgcaac 180

cctgacagtc tagtcgccaa cgggatcgag ctttgcacac gaacacccga gaaacaagag 240
aagaacaaac ggcacccatg gtggccgtct aagaacaccg cgggtcttgc tcggcagaag 300
gacaagtcca atcgcaactc tgaagctttt taccccaaga gggcaatggc ggtcactttg 360
gtccctgaca caccgccact tccgaaaagg gttag 395

<210> 18120
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-G12

<400> 18120
agacaagtat cctgactttt tcaactccttt tgacacagat ggtttcatcg gtagtcttct 60
cgatgttcat cacgggggtct atgactatcg ctatgatgat accaaggagg ttacattgc 120
aattcataat gctcttctag aagttcgtaa tctgttgat gtccccttca acgtcactgt 180
gtgccaaggt tctactatta gttctgcgt aaaccgcatg ctatacttca taaaacctt 240
cctgtctact gaacagtctt ttgaccacat atttgtatcc ataaacctgt cagtcattca 300
cga 303

<210> 18121
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-G2

<400> 18121
cgtccacca caggtccgcg gcccaacact agtagcgtag ctgagagcct gagacgatgg 60
ccgactacta ccacggcggc agggccatgt actccaacac tgacgagtgc tatgacgccg 120
gcaggcacgg cggcagcgtg agggcgctact cgcgcaccga cgagtactac gacaacgtgg 180
acgaccgcat gaggaggccc gcgtacggcg cccacgactg cggctacggc cgcacgcaga 240
ccgccgtgta cgccgacgag tactcccg 269

<210> 18122
<211> 226

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-023-Q1-E1-G3

 <400> 18122

 ttggattgtc aaccgacagg ggtccttttc aaaagagaaa gcatatgtga cgggacttga 60
 agctggtaat agggtagtaa acgattttga cattggggac ttgccaataa taattgcact 120
 tgacggagat cagccccata tacagacatt gcgaagtcct caatgaagag ccaatgaact 180
 gaagctcaca aattccattc ccagaattct ttccccaata attttg 226

<210> 18123
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-023-Q1-E1-G7

 <400> 18123

 cggggccgac tcatacgtcc aatccgactc cacaggatgc acaagataaa ccagctctct 60
 cctctccacc gccccatcca tcagcagtcg cgcattcctg aacagcggtc atggcctcag 120
 agctgccgtc atcggagttc cattgcactc ctctcagcac acggcacgac agcacgcata 180
 ggcactcctc gcactatcac ctcatgaaag catctcggca gccaacgggtg agagcagccg 240
 tccgcgtcaa gagctcgcag tggagggcat taagaacgac ggcgggtggcc gcggtcgcat 300
 gacctgcgcg ccgcccacc 319

<210> 18124
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-023-Q1-E1-G8

 <400> 18124

 cccgggccga cccaaacgtc cacggacgcg tgggcgcgag tgagtgaaca ccagccgtat 60
 tgtcccgacc ccgaccgatc ctgccttgct gcagccatgg cgacctccgc ggcgctctcc 120
 accgccgcca atccccacca gctctaccgg tccgcgcgtt tgctgggcaa gccgggtgaag 180
 gggcttggcc tgagcatggg ccgcgagcgc gccagcggga gcattgtgtg ccacgcggcg 240

agcagcatct cgcgcgaccg cgtcccccgc atggagaagc ggaagctgat gaacctcctc 300
ctcctcggcg ccatctcctt gcccaccgtc ggcatggtcg tcccctacgg gg 352

<210> 18125
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H1

<400> 18125

gcgtaacga gaatgaagat aagagttctg gtaaccctca gtctgggaaa gctttgtatg 60
acttcacagc aggcgggtgat gatgagctga gtttaaactc tggagaagaa gtggagattg 120
aatacgaggt cgatggttgg tatatatgta agaaaaggag gcctgcaagg gatggaaaga 180
tggcaggctc ggttcctggt ctgtatgtga gttcatgata acagccgtgt gtatcgtttc 240
ccacacttgt gggagctggt tggagttcat gggcttaaca aaaaggcaca ctggaatgct 300
cccgagagat cttcgcataa actcgtgccc gtcgtatagg cacgtggcct tgtggaagc 359

<210> 18126
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H10

<400> 18126

cgcgtccacg caagtcgaca ctgcacaggc tcggtttccg ccctcctctc ccaccgccgc 60
gcaccgagaa gatggggaag cgggtggatcc cgctggaggc caaccggac gtcctgaacc 120
agttcatatg ggggctggga gtccacgagg aggatgtgca gttctgcgac gtctacggcc 180
ttgacgatga gctgctcgt atggtgcccc agcccgttct cgccgtcctc ttcctctacg 240
cgctcacctc gctggacgag gagaaagaag aatcaagtgt ttctgctgcc acatcgacct 300
cagcaggcaa cgaattgagc aagaaagtat acgttacgaa gcagactggt gggaatg 357

<210> 18127
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H11

<400> 18127

accgggcgcct ccctggccag ccgcccggcg ttctccacca gcttcacgcg gggcagccgg 60
gtgtcggcga ggaacccccct gatgagcagg aacctggaga ggaatggcag gatcacctgc 120
atgacgtttc cccgggactg gctgcgagg gacctgagcg tcatcggctt cgggctcatc 180
ggctggatgg ggccgtccag cgtcccggcc atcaacggca acagcctcac ggggctcttc 240
ttctccagca tcggccagga gctggcccac ttcccacgc ccccgcccggt cacctcgcag 300
ttctggctgt ggccagtgc ctggcacctg ggc 333

<210> 18128

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H12

<400> 18128

ggtcggggcca agcgtccgcc caagcgtccg gagtcaggca catggcccag acatgacctt 60
ggggcaagca tggatagcca gtgagccagc cttcataatc ttcttggttt tcgacgtctt 120
ggctctcttc atctcgctcg cggtcgtcgt ggtccagacg tctctgatcg tcgtcgaaca 180
gaaggccaag aagaagatgg tcttcgtgat aaacaagctg atgtggctcg cgtgcctctg 240
catctcggcg gccttcatag cgctgacctc cgtcgtcgtg ggccgagacg acgagtggct 300
ggcctggtgt acgatggcga tcggcaccgt catcatggtg gccactctgg gttcaatgtg 360
ctactgcatt gtcgctcaca agatggaa 388

<210> 18129

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H2

<400> 18129

gggtccaccc acacgtccgg gaagctgttg aagcctcaaa aggtttccag attattccca 60
cgtgcttggt caaccgaaat ctggagtctt ggaagtgcac cgattgcaac caactctact 120

gggaggggac tcagtaccac aatgcagtc aaaggttctt gtcagtgtgc aacattagtg 180
 actaagcagc acggccttgg tactcatttg taaaattgta aggtactgag ataccatcac 240
 cttcgaaaaga tcgaacataa tctgatcttt ggcatccaat cgtgcacgat gaggcacgca 300
 atccattttt agtggtttgc tgttcgtcac tgagatgctg ttgtaaggaa aatagac 357

<210> 18130
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H4

<400> 18130

attcatcaat ggcaagagtg gacgtcgaaa tggaccttcg cttataagaa cgctgaacat 60
 gttgttgaat ccaatgcaga tatttgagct aagtgttct caggcacctg aagttggatt 120
 acaactattc cacaatgtga aacacttcag aatccttggt tgtggtgggg atggaactgt 180
 agcatgggtt cttgatgcta ttgacaagca gaactacgag tctcctcccc ctggtcgcca 240
 ttcctcctct cgggaaactgg aaatgaccgt accacgtgtt 280

<210> 18131
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H5

<400> 18131

ccgggcccac ccacacgtcc acccacgctt ccgaggacac gtgggcagtt ccgtgggtta 60
 actcttcagg ggagaatcct ttagttcttc cataccgatt ggtaatgggc ctatggtaga 120
 ccaactagaa cgttatggtc catcccttgt aacccttaca aaaccggtgc ttgcacttag 180
 gacagcttgg ttctgcaaca ggtgtatatt cgactcttgt tacgtatttg gtccgtgttc 240
 cacaggtttt attgggtttc attcgacacc tacgtgatga caatgggcct atggaagcat 300
 agcgcaaaca gatgtctctg aaggccccac acggtgtctg ttactgatta ttccatccga 360
 ctgccttgcc gtgttcaga 379

<210> 18132
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H6

<400> 18132

gctttgtggc ggcgacagc ggctgcagct agagccgggc agcgggacgc gcacccctgcc 60
atcgctcctcg tccggccagc tgcacactgt gatccaatac aatggctagc gatggctgaa 120
gacctagatg atgatgatca tgatgatgga cctgaggcat cgttgtaagc ttgttgatga 180
acatctacat gacagtaatg taccatgaat gctatgaatg tttcctagtg gacttgcccc 240
gtaatgtttt gtgatcttgt gaac 264

<210> 18133
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H7

<400> 18133

aggggagtcg tggataccaa atacaagccc agagggcggt caccttttgg ttttagtggt 60
gagaaccaag acggctttac cgagttgaac agaggaccaa ggtctggtgg tttcaagcac 120
caaaaacaat tcggtcctac tgtaactatt gctgtgaagg gccaaagcct cccttcagt 180
gggaaacaga acagtgtctt tccagacaaa ggccaattta accaggaagg gtttccttta 240
acctacaagg atgcaaagtt ctttgttatc aaatcatata gtgaggatga tgtgcacaag 300
agtataaaat acaatgtgtg ggctagcact cctaattgaa ataagaagct ggatgctggg 360
taccgagagg ctcacgagag atccaatgac tgccccgtgt tcattgtttt 410

<210> 18134
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H9

<400> 18134

acccaagcgt ccgcaagaat gccagtgaca acagtgagat agccgatata gcgaagtcac 60

taaagagaaa ggccaaggaa tttagaaaga acgaggccca ggagagtgtc atagctgaat 120
catatatcgc aagtaatgat gaattgcggc aaaaaaagaa aaagaaatca actaagtcca 180
agtagcccta atcctcatgc ataatgacac tggcaattga gaaggattgc atgagccatc 240
cctataatta tgtcattcat gctgtgatcg tattagatga tgaaacaaaa ttcgaacctt 300
ccgctggtct gttgttgcaa cagttcatat gcaatagggt tttaatgggt aaaaaaacgc 360
aaaaaaaagg gggg 374

<210> 18135

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-A10

<400> 18135

acagcaatcc acacaagcac ttcgacgtcg cacgggcgct gcacacagac acaccaagcg 60
tcggcaccaa tggcttacta ccaggagggtg gactactgct cggaggaggt gaggtcgggtg 120
gccccggccg gcttcggccg ccacggaggc ggcgtccagc agcacgtcgt caaggagaag 180
ttcgaggagg tcgacacggt ctacgcgcc ggcgcccaacc accaccacca ccaccatggt 240
caccacggcg gccacggctt cgtggtgcgc gagaccaggg tcgaggagga catcaacacc 300
tgcaccggcg aggtccacga gcgcaggag agcttcctcg ccagggctaa ctgagccggc 360
cggcggggcg caatcacgcc cggtccgtgc ctgcc 395

<210> 18136

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-A11

<400> 18136

acggacgcgt gggcggacgc gtgggcgctg caatggtgaa gaacagcgga caattatcct 60
ggaaactgac gggttatgtgc c 81

<210> 18137

<211> 385

<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-A12

<400> 18137

acggacgcgt ggggtttttt ttttttttg gagatgctgt gtaagttgat tcatattgga 60
ccaagagact gcccaagaca gtgaacacaa caattcttcc ttgccgattg aaccctggta 120
cggtaagtaa ttacatcat ggtacaaact ggaaccagtg cgcgctcacg tgcacccgaa 180
cacctagata tccgcagcgg tggccgggtgg gcggtggcgc ctccaccccc tcaattgccg 240
ggcacaaagt tgggtggcata ggcccatgcg ttgttggtga cggggtcggc gaggtggtcg 300
gcgaggttct cgagcgggcc cttgccgggtg acgatggcct ggacgaagaa cccgaacatg 360
gagaacatgg ccaagcgggc gtccc 385

<210> 18138
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-A4

<400> 18138

gccccaaacc caacccaac ccagcgggtcc cagtcccccc tccgttctct ctgcactctg 60
cagctgccgg tgccggccat ggcgcgcgcc ccgagctcgt ggacgccgtc cctcgccatg 120
gtgctcctcg tcgtggccgc cgcggccgtg gtgcgctcgt cggaggcggc caaggtgccc 180
gccgccgtcg gcaactggac gggggaggag ctgctcgggg ccgccgcgat gcggggcggc 240
cggcgctccc ggcgccgcgc gttcgagaac ggctcggcc ggacgccgca catgggggtg 300
aatagctgga accacttcgg ctgcgggatc aacgaaaacc tcatcaagca gacagctga 359

<210> 18139
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-A5

<400> 18139

cgtaagagc gacctatgtc cacacgacac gaaccaccat caccaaccag cagccgcata 60

acgcacccag cgcacagcga tggcgtcgct cacgcatgat ggcgtccttc gccgccgtgg 120
 ccgtggccgc gccctcgcgc gacggcacct tcgccgtggt caggtcgcc tcggtcgacc 180
 gctgcgagga gcacgccagg ttggcacgtg c 211

<210> 18140
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-A6

<400> 18140

aacacgtccc tgtcgtctct catggcgctc agcccaatcc cgacgccgcc accgccgtc 60
 ccgaagacca gcggcagagc gctctccgtc gcgcctcgcg gctccgcgtc gtccctcgtcg 120
 ccgtccactt cctcgactcc tcatccggtg gcggcgctcg cgggcaggag ggggtgctg 180
 gcgctgggcg ccgggttcct ggctcggcc gcgctgctgt ccccgccggg cgacgccggc 240
 gccacgcgca tcgagtacta cgcgacggtc ggggacaaga tgtgcgacct gagcctcgtc 300
 aagtccggcc tcgctactg cgacgtcgag gtcggcaccg gcgtctagcc cccgcgcggc 360
 gagctcatca atgtgcacta caccgcgaga tttcccg 397

<210> 18141
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-A7

<400> 18141

acacgtccct gtcgtctctc atggcgctcca gccgaatccc gacgccgcta ccgcggctcc 60
 cgaagaccag cggcagagcg ctctccgtcg cgcctcgcg ctccgcgtcg tcctcgtcgc 120
 cgtccacttc ctcgactcct catccggtgg cggcgctcggc gggcatgagg gggctgctgg 180
 cgctgggccc cgggttcctg gcctcggccg cgctgctgtc cccggcgggc gacgccggcg 240
 ccacgcgcat cgagtactac gcgacggtcg gggacaacat gtgcgacctg agcctcgtea 300
 a 301

<210> 18142
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-A8

<400> 18142

aaggggttga atttgggaac agtgtttact ggattagctt tggcaatgag tacgctgaaa 60
agaaattccc tgcattccaga ccgtttggta tcaagtacaa gtttcactta gaggatgctg 120
ttgattgccc agaatgggtt gttccattcc atctcttcaa attattggca gaggagtatg 180
atctcgagct ggttctgatg aagaactttc atgaatttgt acacgagtac ttgcaaaaac 240
cagagttcgc cgagctgatg cggaggctgg gtgccctcgg tgatggaagg caggaccaaa 300
gtacactgtc acaagatgag tgggagggtt cctatctcta tctcgcgttt gtcctgcgga 360
agcgaggcca accgcctacc caacgaag 388

<210> 18143
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B10

<400> 18143

accacgcgt ccgcggacgc gtgggtcctc acgagcgatt gcggcggcgg aagtaagagg 60
cgatggggca ctccaacgtg tggaactcgc accccaagaa ctacggggcc ggatcccgcg 120
tctgccgggt ctgtgcgaac cctcatggac tgatcaggaa gtacgggctg atgtgctgca 180
ggcagtgtt ccgcagcaac gccaaaggaca ttggcttcat caagtaccgc tgaagtcagc 240
tgggcgggct atctgaatgc catctcttgg acagtgtagt agaggcgatg ccacaatttt 300
aattactgtc atttagatgt tcccttcaga actctgctat ttaagtccgc catgtttgtg 360
atggagaact taag 374

<210> 18144
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B12

<400> 18144

aacggacgcg tgggcggaagc cgtgggagcg gagaagcgcc caacccaacc cgccgttcct 60
cctccaaagc gccctcctgc cccgcaaaat ggagacctct ttcttgccca ccacactccc 120
caacacaagg cctctccccg cgctccgaac ctacgcccc a ggcgcctcga tccgttccca 180
acagcgccct cgtcgctcca ccatacgcg agccatcacc cggggccgga aggatgagac 240
ggtgaccacc gtccgggagc aactggaggg gtgctacctc ctggcgggta acaagtacga 300
gggcctgaac gtgaagcagc tgcaggaat ccgcgaagcg ct 342

<210> 18145

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B3

<400> 18145

ccctaaggta ttggcacctc ggtccagaga agactactta cagctgaaac aaagattaca 60
gtggttcact ttaggcattg gtggcggttg tgtaatctct gcttatattt cataactcc 120
tgaaattgct gtcagctttg gtgcagggtt gattggatca ttggtgtatc tccgcatgct 180
tggaaccagt atagattccc tagcagggtg aactggacaa actgtccaga gtgctgctgc 240
acaaccagg ttg 253

<210> 18146

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B4

<400> 18146

agccagagga gttgttgatc gaggtgagtg aggttgaaaa gcacaccatc gtcattggacg 60
gcggaatacta cggcggtcgc gatcagcgct acagcggcgg gtactacggc ggcgggtggca 120
tcgcaacgcc ggggtacgct ccggcggtcc cgtacgggat gtcgcaggat aacatcgagg 180
gcaacgggtg cgggcgggcg ctgccgccgc agccgaccgt gaaggtgtac tgccgcgcca 240
acccaacta cgccatgagc gtccgcgacg ggaacgtggt gctggccccg gccagaccca 300

ccgactagta ccagcactgg a

321

<210> 18147

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B5

<400> 18147

aaaagccgtc ggttctactc ccggaaggtg tcgccaaagg tctcctccag cacctacaac 60
atagcgcagg tttcatatga gctgaatgtc ttgggtactc ggggccctag gcggatgaac 120
tgtgttatgc actccatccc tacctcgtgc cttgaggctg gtggcagtgt tcccagccag 180
ctggacagca tccttgctcg ctccactgat gagtcatttg gcagcatttc cttctccaaa 240
tcattctgttg tggaacggtc tatgcgtttc agcagctcaa gattctccga catctcaatg 300
atcagcagcc gcaggattgg agacacggca tccggagaca atgatgagtg caaggag 357

<210> 18148

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B6

<400> 18148

acccacgcgt ccgttttttt tttttggcac aggccatcga tagattgatt catccactga 60
tgacgatagc atgcgtctgt gcttagttta catcgaccgc ttacagcagg cagccattga 120
cattgattga tgagcacaca tcgatcatga gcatacgccg gctggtgcaa ctactacacg 180
cctacgatct gaacaagtag agtacagaga agaccacact gttcactcga cggacggacg 240
aacgaatgga tggatctgac ggtagtacac atgtacggcg ttgctcagtc agttagttgc 300
cggggacgaa gttcgtggcg tatgcccagg cgttggttggc gacgggggtcg gcgacc 356

<210> 18149

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B7

<400> 18149

aacccacgcg tccgcccacg cgtccgcacc gcaccaccag cgccaggccg ccaagcgcca 60
gcaccaccgc gccgcgccc aagcaggcaag caccactgac ccaccaggcc accaccccac 120
cgcttcgagc cgagggagaa ggccgcgcgg ggccggcgcg tcaggctctga gatgaggggc 180
ggatccagac tggcctcggt cgccctgttt ctctcgcgtg catccgggat ctgtgcccag 240
ttcaccgcag tgctagctgg tgatcctcac acattcaacg acgataagaa ggctgaagct 300
cagcctaggg gccatactgg 320

<210> 18150

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C10

<400> 18150

agcccaggcg tccgcggact cgtgggcagg ttcgtggggc gcctcgtcgc agttgaagca 60
ctccaacttc gaggcagttc atcactgcca gggcggttctc tcgctcgagt ctggtcacac 120
gcatgcccag ccgagctcat gcgtccctct cccgcgggtgc ctggcttcgt cgagtctcgc 180
ctccagtcac gccacgccc tgttacgcac acgagcccgc cccagtcctc atcttgctat 240
ggatgggtcag cggaagtctc tccccttctt g 271

<210> 18151

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C11

<400> 18151

agctccacat caacgccgtc gcacgccaga tcacgtcggc ctcggtgac cagaggaagg 60
acggcagcgt cttccgtggc atagacgagg tcacctactt cccagcaag tacaacatgg 120
agatgtcttc caaggcgtac aaagcctgga acttcacgga ccttgctctt cccaacgatc 180
tcaccaagag aggtctggcg aaaggagatc caaagaagcc agagacgctg gagctggcga 240
taaaggacta cccgtacgcg gtggacgggc tcgacatgtg ggccggcgatc aagaagtggg 300

tggtgacta ctgcgccatc tactacgccg acgacggcgc cgtggcgaag gacagcgagc 360

tgcaagggtt gtggag 376

<210> 18152

<211> 300

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-024-Q1-E1-C3

<400> 18152

gggcattgca ggatatgttg cttggggaca ctccactcct tgttggacct tttggagagg 60

tgattgcaac aactgagcat gangaggcaa ctataatagc agaaattgac tactcactga 120

ttgagcagag gaggcaatth cttcctctgc aacaccaacg ccgtggcgat ctctatcagc 180

tggttgatgt ccagaggctg ggttctcatt agcacaggga cgaagcanga gaggcattga 240

ctctgcaggc ttgtctgtac tacttcgttc atgagatgca tgcccatgcc catcgagaga 300

<210> 18153

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C5

<400> 18153

acggacgcgt ggggtgactgc ttccttgaaa ccaaagggtg ccatcattcg tgaggaaggg 60

agcaatgggg acagggaaat ggctgctgca ttccacgctg ctggatttga accatgggat 120

attacaatgt cagacctctt ggctgggaag tcttctctca aggagttccg tgggattgca 180

tttgttggtg gtttcagcta tgcagatgtg ctggattcag cgaaaggctg ggctgcatca 240

atcaggttta accaaccctt cattcagcaa ttccaggact tctaccatag gccagacacg 300

tttagccttg gagtgtgcaa tggttgtcag cttatggctc ttcttggctg ggtgccagga 360

tcaggtgttg gaggttct 378

<210> 18154

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C7

<400> 18154

ctgctctctc cctcctcctc tctgctctgc tctggaccgt taactctcca gctccccctc 60
gctccgttcc cttccgcccc aatcactggg accaccaccg ccttcttcaa gatcggcggg 120
cgggcaccgg cgggcgatga catccaccgt caccacaacc gtctggtccg gggggcgcc 179

<210> 18155

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C8

<400> 18155

acgccatggc gggtttctgc actcctgctg ccactgcagc tgcccatgcc gccctaacc 60
ctctgacgag ctcaaggaag cacatcgcca tgtgcctgtc cccaggcca agcggcgggc 120
gcggcacgag cgggggccag agggcgcggc ttgcgagtac aggcgcagct cctcaggttc 180
gcgcgctggc gccgacgacc gcggcagaag aagcagcggg tccctcccc gccctctca 240
acgtggagta cctggccgct gagttcgccg gccacggcgt cagcttcgag cccgtggggc 300
tcagctgcgc cgtcaagatg tcgctgcgca acggcaccgt ggcgcacgtg ctgctcccca 360
gcgggctcgt cacgtcttac aagcccgcca 390

<210> 18156

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C9

<400> 18156

ggtggctcaa gttgttgaaa caaacaggct tggagcgtca acttgaattg atagaaactc 60
atcaacgaga cgtagacaag gctctaccga gtatcgagga ggaagctgaa cgcgtattcc 120
aggatgaccg aagtgttact tcatgaatat ggagctgctt cagcatgaga tactatgtat 180
gaatatacga gacgttgttg agcatgcact gcgatcgatg atacaagacc ttcaatccac 240

caggcagact atgagcgcta ctcattggctg tgagctctag tccgcggcac gtacgccacc 300
 atttggtgtt gccg 314

<210> 18157
 <211> 214
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-D1

<400> 18157

cccggggcga ctcaaacgtc aactgctctc tccctccgca tctctgctct gctctcggag 60
 cgttaccgct ccagctcccc ctgctccgt tcccttaacgc tcagttcgct gggaacacca 120
 ccgccttctt caagatcggc gggcgggcac tcgccggcga tcacatcgat cgtcaccata 180
 accctccggg tgcggggggc tccccgtccg cccg 214

<210> 18158
 <211> 160
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-D11

<400> 18158

aaaagatacc gctttgcgga atagtatgac aaattccgtt gcttagccaa ctagaagtgt 60
 tgagcgagac gaagatgac atctgaatac atcttctcca ggactaggaa ggcttggtga 120
 gtgctcatag ggagcaggtt gaagcgactc tggacatcct 160

<210> 18159
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-D12

<400> 18159

aggcgagcaa gaacaatagc agcatagggt cacctggacc aggacgtact agaaagatct 60
 ttgttggggg tctggcttca aatgttaccg aggtcgaatt cagaaggtagc tttgagcaat 120
 tcggtgtgat aaccgatgtg gtggtgatgt atgaccacaa tacgcagagg cccaggggct 180

ttggtttcat cacatatgac tcagaagacg cagtggataa ggcactgcac aagaacttcc 240
atgagctcaa tggtaaaatg gttgaggtca agagggctgt accaaaggag cagtctcctg 300
gacctattgc acgttcacct gcacgggggc agaactatgc tatgagcagg gttcataact 360
tcgaacatgg ttttacca 378

<210> 18160
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-D3

<400> 18160

gtcatgtcga agcgaggtac gggaggttcg gctgggaaca agttccgcat gtcactgggt 60
ctaccggtgg cggccacggt gaactgcgcg gacaacacgg gcgccaagaa cctctacatc 120
atctccgtca agggcatcaa gggccgcctc aaccgcctcc cgtccgcctg tgtcggcgac 180
atggtcatgg ccaccgtaaa gaacggaaag cccgacctca ggaagaaagt gatgcccgcc 240
gtcatcgtcc gccagcgcaa gccgtggcgt cgcaaggacg gtgtctacat gtacttcgaa 300
gataatgccg gagtgattgt gaatcccaag ggtgagatga aaggttctgc aatcactgga 360
cct 363

<210> 18161
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-D5

<400> 18161

gcattttcgc catatttgct ggacctccgg tgaattccaa tgacttttat gtgccattca 60
agcccaaatt gaagcttctc tactacaaaa caatatgttg ggtccagcta cgttatttag 120
tgcagggggc gtatatagct actatgtatt ccctttcttc tataatgaat aagattcaaa 180
ggttcacagt ttgtcctaaa ataaataata ttttacacaa atatgaaaga ttgtctccta 240
atatggaagt taatcatagg tgcttgcaag caataactgt caaatccaag agatatcctc 300
tacaaaagga aaggagataa ggatacagct tcttttgcca acgttcctaa tatatctgaa 360

aatttccagg aacttgttta tt

382

<210> 18162

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-D7

<400> 18162

aaccacgcg tccgtcctt caagccggag cccgatgcca accccgcgcc gccaccggag 60
gacacgagcg agatcgatgt gtacttcaac cccaagccgt tcgaagtccg ctgctgatac 120
ctgcttcgtc cttggctcac gactcagtt ttcctgggtc cgatgcccac ggccgcgccc 180
tccctgctcc atttcgcatg tgcgcgcgct cggctccagt cctgccgcga gcgcggtgct 240
cgggtcccat cttcggcgcg aagcacctg tggccgcgcg gctactctc caagtagagc 300
tccgtccatg gccgcgggtc gagctctcc cag 333

<210> 18163

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-D8

<400> 18163

ctgtggtgat catgtcgtct gagaatgtgc ctgcccgat cagcaggtgc ttgcaagacg 60
gcgcggagga gttcttctg aagcccgtga agctggccga catgaagaag ctcaagtcgc 120
acctgctgaa acggaagcag cccaaggagg cgcaggcgca ggccgaggcg caggcgacgc 180
agggacaggc ggtggagctg gagcctgagc agcagctgga cccgcgcacg cagccggcgc 240
acgacgcgga ggaaaccgcg gcagagccgc cgccggccgc atccaacgga accaccgatg 300
gcggcaacaa gaggaaggcg gcagccatgg aagatgacgg gatgctggcc gtgatgaccg 360
tggccgcgcc ggacagcagc 380

<210> 18164

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-E10

<400> 18164

aggcaggccg cgccgcccc gcaaatctca cgcacagaaa caccaaagcc ccaaaggccc 60
aaactcacca cctcccaatg gagaacggcg acgaaaccct cgcctcccc acggccgccc 120
ccgagacgga cgcgctcaac ggcggcgctcg cggaggagga gcagggtccc atcaccacc 180
ccgcaaagtc ctacgtcacg ctcgccgac gacaaccccg ctctaacgg cggcgctcgtg 240
aaggaggagg agg 253

<210> 18165

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-E11

<400> 18165

acgccacagt gctggccatg cctggagccg ttgcgcttgc gccacgctc gcggcagcga 60
gcagctccgc cgccgcggcc tccacgctgg ctccgaacc gacaagccga ggcgacccgc 120
taactattag gttgtgccgc aatgctcctg ctacgcgaac tccacttggt cacttgtag 180
ccaccgctcg ctacgtgcgt ggctgccgcg gcgcggctct agtcgccagt cccaccacg 240
ctccaaacc tcgcctccga ttgcgctctg cggcagaggg gatggctcgc gaagcgagca 300
cggctggtgc ggcgttcgca gccgaggcga agcccttcgc cgtcctctc gtgtgcct 358

<210> 18166

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-E4

<400> 18166

gtccaactcg tgcttcacgc actgtcagac ccactcgagc cactgggtgac attcgccac 60
ctccccgagg ctcggtaatc agactgttgc agacgctgtt ggggactggt actttggtag 120
aagacgggta gtgaagcagg tcgactgcga gtacccttgc aacccacgt gtagcattca 180
gtatgtgtga gctggcttct ccttcgtgac cgccattgca ccgagctgag gttcatggga 240

gtccttggtt cctccactcc cgtacttgag gtgtccttgg ttacaaatca gttttatttt 300
aatccagaga acgatacctg aatgttaccg acaatacgta caaggtgtgt gtaaacc 357

<210> 18167
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-E5

<400> 18167

ggcatctata gcaaccgggc caacactttc acgctcaggc gctcagctct agcagtggct 60
gcctccacca tggcgatctc ctccacggcg atggccggta ccccatcaa ggtgggctcc 120
ttcggcgagg gccgcatcac catgcgcaag accgtgggca agcccaagggt ggcggcgtcc 180
ggcagccctt ggtacggccc cgaccgcgtc aagtacctcg gccccttctc cggcgagccc 240
ccgagctacc tcaccggcga gttccccggc gactacggct gggacaccgc cgggctgtcc 300
gccgaccccg agaccttcgc caagaaccgc gagctggagg tgatccactc ccgctggggc 360
atgctcggcg cgctcggctg cgttctcccc gagctgcgct cccgcaaagg ggtctaattt 420
gggg 424

<210> 18168
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-E6

<400> 18168

agcggacgcg tgggcgcgcg cacactgaat tagctgtgcc gctggctgct tcgtaaact 60
ctgcttctt gtcctctgtc tctgtgcag tctgtccag tccctttttt cttgtcccgc 120
atccatggtg cagcttttgc cggcgctggg ggcgctcgcc cttctcctcg gcagaccggt 180
ggcggatgcg gcgatggcga aatacacgtt cacagtaact cgctctcttc ctctctctct 240
ctctctctgt gtgtgtgtgt ctgtgtctct cgctcacttc tatctctatg cagagtc 297

<210> 18169
<211> 380
<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-E7

<400> 18169

atgttttctgg agataccaag cactgagtga gcaatggcgc atcccatgcc tccaaactca 60
gcatacacaga gcacaatcac caccgttctg aagatccttc caaaacctcc tgctgctccg 120
gagagcagaa gcaataattg tgcttttggg gccaaattcg acagtaggag ggcacttcta 180
tgccggttgg tcgctgctgc tgctgctgct ggcaccatgc tgggcgctga catcgctggt 240
gctgcttcga agaggcggcc tccaccgcca gcgcggcag aggcgaagaa agaccgatc 300
tgtctgccga gtgcaggcta aagtgccttc tagcacgaag aggaagacg ccataagga 360
agctgtggcc aagctgaggg 380

<210> 18170

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-E8

<400> 18170

agcgtcacat tataactgat gatcagttgt ttagaccagt tttggatccc caaggatggg 60
accatgatat tgggttcgat gccatcaatt ttgaagcatc tcaagagttg aaaaagaatg 120
tctctgcggc aattacagga cagatgagaa aggacaagga agacatgtat atccattcag 180
aatgttcagt aagttacaat gctcagagag gctgctcctt gatggggggg atggatatgc 240
agacggcaag caaagatttg gtctgtactg ttcattggga tgccaagtgc cacaatctgc 300
cttgaacag tagtggaggt ggcatttctg ttactaagtt tggcaacaag tactttgctg 360
gggctaagtt agaagactcc gttaccattg ggagacgag 399

<210> 18171

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-F10

<400> 18171

acccaagcgt cgcaccccg cgtggcgga ggccgcagtg gtggggcggc ccgacgagta 60
 ctggggcgag atgccgtgcg cattcgtgac gctcagggag ggcgcggccg gcagcgtgcg 120
 cgccgaggag gtggtggcgt tctgccaggc gcgcctgccg cggtagatgg cgccccggac 180
 ggtggtgttc gtggccgagc tgcccaagac agccacgggg aaggtgcaga agttcgcgt 240
 ccgggagcaa ggcatggcca tgggcagcat ctccagctcc gagcagcatg atggggcagg 300
 gacgaggagc aagctctgat ctgaactcgc atgccacat ggatg 345

<210> 18172
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-F11

<400> 18172

agcagcctca tccccttgcc cacttctaca gcccctctgc tgcagcaaga aggaaagaag 60
 ctagegetta tagcttgtca gccatggcca ccgccgccg gtctagcctc ctcaagtcct 120
 ccttcgctgg ctcccggctc ccggccgcca cgcggaaccac accggcgctc ctctgtggtgg 180
 ccaccggccc gcgcggcgcc ggcgcggggc ccatctgcgc gtccatgtcc atgtcctcct 240
 ccaaccggcc ctacgacctg acgtccttcc gggtcagccc catcaaggag tccatcgtgt 300
 cccgcgagat gaccgcgcgc tacatgacgg gcatgatcac ctacgccgac accgacgtcg 360
 tcatcgttgg cg 372

<210> 18173
 <211> 171
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-F12

<400> 18173

agtgcaaaat ggctggacgt tgctgttctg aaattctggg ccaattgtta ctacaggtcaa 60
 taaaggactt tgtttggact tgatgcattg tttcctttgt gtattggtgt gcggcatgga 120
 ccaggaatgt tatacatctg aatatatggc tgttttcatt ttttaggcag t 171

<210> 18174

<211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-024-Q1-E1-F3

 <400> 18174

 cacttttcgac gccacaaca acgtgtccgt catcatccag cccacctcca agaagacatc 60
 acgagtacgc tccccgagga gttcctctcg caggtcgact acttgctcgg caagcatgcc 120
 tactgcggca agaccgactc cgatggcggg ttcgagaccg acgccgtggc caccgccaac 180
 gtgctggaga gctccacccc cgtggtggac ggcaagcagt actacagcat caccgtgctg 240
 accaggacgg cggacggcga ccatggcggc aagcaccagc tcatcacgc catcgtctcc 300
 gaccgcaagc tctacatctg 320

<210> 18175
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-024-Q1-E1-F4

 <400> 18175

 acccacgcgt ccgcgttcac cttccggtga tcaaatacca tggaaatddd gtgaacagtt 60
 ccaagacaat gtattttcaa gtctctcagg agctcgtata gtgcgaattg ctgtccatcc 120
 tagcgccttg aggcttgggt atggctcagc tgccattggc cttctatctc ggtactatga 180
 agggcaaatg agaagattat ttgatgacga tgaggaggaa acggaagagc ctgatgtgaa 240
 gattactgaa gctgcagaga aggcttcact gctagaagag accataaaac ctaggggcaaa 300
 tcttccacca ctcttgttc atcttcatga acgtcgtcct gagaagctcc attatcttgg 360
 tgtatctddd ggacctgacc aagagcttt 389

<210> 18176
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-024-Q1-E1-F5

 <400> 18176

acgcgcccgc accatcacct tcgcagccct agccgcccgc tccattgctg ctatacccgc 60
aaccatgggt cccgtgctga agcgcggcag cccgggcacg gtgcagtgtt tcgggcgcaa 120
gaagacggcc gtggccgtgg cctacacgaa gccaggccgg gggatgatca aggtgaacgg 180
cgtcccgatc gagctgctcc gtcccagat gctgcccgtc aaggccatgg agcccgtgct 240
gctggcgggg cgggtccaggt tcaaggacat cgacatgcgg atccgcgtgc gcggcggcgg 300
gaagacgtcg cagatctacg ccatccgcca ggccgtcgcc aagggtctcg tggcatacta 360
ccagaagtac gtcgacg 377

<210> 18177
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-F6

<400> 18177

ccgggcccgc ccaagcgtca gagctactac aaatgtacaa acccgggctg ttcagtgcgc 60
aagcatgtgg aaagagcatc gcacgatctg aaatcagtca tcacaacgta tgagggaag 120
cacaaccatg aagttccagc agccagaaat agtgggcaag gcagttccag cgctccatct 180
gcatcacaag ctggtgggtc tcaccgtagg caagaacctg cacaggccag ctttgctcac 240
ttcggtagcg cttctttcag ctcggtcggt ctcccaccga gtggtcagtt gggaccaaca 300
actggcaatt tcggcttcgg gatgggtccc ccaggcatga cgattccagt gccctctcta 360
ggatcgcttg cccctgtaaa gatgggtgga aattcatcag ctatgcacgg gtagcaag 418

<210> 18178
<211> 116
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-F7

<400> 18178

aactctacct ttccattact gttatctctt cataatctct cctctcatgt atcctgtttc 60
tctaccttct agaacaattt ggctatcaga tatcaaatta gatcgtcttc ctgcgt 116

<210> 18179

<211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-024-Q1-E1-F8

 <400> 18179

 ctcaaattct agccaaagtt cactgcttga gtgtgcagtc cttatgtact gctggtataa 60
 cccctccct agcccaggtt tgccccttc tccccatgga ctggatgccc tcagtgaccc 120
 ctccccctgc ctatttattc agtgtgttcc acggctgagt tcagaaaagc ttttctccct 180
 tgtttctgag ctgtagtccc agtccactac aaagggtgtg gagtcctggt attcttgctg 240
 gtgtgcatcc tctctttcag ccaccaagtt tgttttactc tagagctgaa tgccaacctc 300
 ttgctgtgg tgaccaaacc caaccgtttt tcacctcccc gtggacaagg tttcccaaa 360
 gtattcttgg tcgtgtacta cttgttccat gc 392

<210> 18180
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-024-Q1-E1-F9

 <400> 18180

 acggacgcgt gggcggacgc gtgggcggcg tcacccttcc cgccaagtcc ctgcaccct 60
 tctcggtccc ggcacagttg aacggcacc actgaagctg ctactgctct tgaaaagaag 120
 ggcacagtgc agatctgcta gagatgatga gagaagcagc aatcaagtgt agctgttgct 180
 cgtagacctg ctgtgctgtt gctgtttgca aagctgccgt cttgactccg cctggtaagt 240
 agtgtactga tagccaggta tagaggtag gttagggtgt agcgacgcaa agcctttccc 300
 tgtttttctt cgccctct 318

<210> 18181
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-024-Q1-E1-G10

 <400> 18181

agcccacgcg tccgcccacg cgtccggtgg tgtcggagga agaggctcgtg gctgccgccg 60
aagcagccaa cgcgcacggg ttcacgcgcg cgctgcccga cggctacgac accgtcgtgg 120
gcgagagagg gacccggctg tcgggcgggc agaagcagcg cgtcgccatc gcacgggccg 180
tcgttaatga ccccaggctg ctgctgctgg acgaggccac gagcgcgctg gacgtggagt 240
egggccgctg ggttcaggag gccctagacc gggatgatgg tgggaggacc accgtgggtg 300
tgggcgcatcg cctgtccacg atc 323

<210> 18182
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G11

<400> 18182

agcctttgaa accaagcatg gacttgcacc ttgcatgggt gctcctacta agatcatagc 60
tggtttgggg ttgtcactgg ggattgatat ccttgaagca cctggagcaa ctggagatta 120
ccgtactctc ttaacttcta aagctaaagc tatagccaag gcattatctg cccctatggg 180
tacaccacct cgtgtttttg tgcttgaga ggatgaatac aaagctggaa aagaaaatgg 240
atatgacttt gggttcctgc acataaaggc cattgatgat gctggtcatg ataaggctgt 300
caagttaaag gtacggggtc tagaagctgt tgatcgagct attggtcagc ttgcaaggct 360
tctttgggaa gctgaaaat 379

<210> 18183
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G12

<400> 18183

aggccgtcac ggccaccacc gggtcggcca aggccacgat cttcgatgag tacctcgaga 60
agagcaaggc caacaaggag ctgaacgaca agaagaggct ggccaccagt ggagccaact 120
ttgcgcgcgc ctacaccgtg gaggtcggca gctgccagtt cccctacaac ttactgggt 180
gccaggacct cgccaagcag aagaaagtcc ccttcacag cgacgacctc gagattgagt 240

gcgaggggaa ggagaagttc aagtgcggct caaacgtttt ctgggaaatg gtgaagcaag 300
 ctagcagcag cgtctgatgg gaatggagga gatcatcacc tgtcttgtcg accctagata 360
 tgtccaaact gcagggaaat taaatcttca agtg 394

<210> 18184
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G2

<400> 18184

cgtcagagaa cagtccggcg gcgtcacgta cgtggagggc atgaacgcct acagcggcct 60
 caaggggctc aacaaggtga acatgctcgg ggtgcgcaag accgccgact actccttcgc 120
 caaggtcgtg gcgtcgtcga gccccgcggg caggaagcgg cgcggcggcg cgttcggcgc 180
 ccagatgaac gccgccgccg agatcttcag gatcgccgcc accatgaacg gcctcgtgct 240
 cgtcggcgct gccgtcgggt tcgtgctgct ccgggtggag gccgccgtcg aggagtccga 300
 gtacggtgcc 310

<210> 18185
 <211> 138
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G4

<400> 18185

ctttgtatga aaaaccaag aatttccaga aaggaattat ccaaattggct gctgttgtga 60
 aagctaaacc tagaactgaa ccacggcctg acaaaactga accaaataag gaagcagttg 120
 ggccatcaca attgactg 138

<210> 18186
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G8

<400> 18186

aggccagagc cagagccagc cagccagaca cacaacctcg gtcggcgcg cggtcaacc 60
 caatggctcc ttctccctc cgcccgccgc gccaccacc gtctccctc gtcgtcctcg 120
 ccatcgccgt cctcctcgtc ttgcgcaccg ccgatgggct gccggaggcg ggaggaggag 180
 gaggaggcgg cggctctgtac cgggagattc tcagggacga gaccgtgcag aggctcaagg 240
 agctgggcaa gatatctgat ggggatggct accttgaaag gacgtttctg agtccggcct 300
 ctatcagagc cactggtgtc atcgtcagct ggatgaaaga cgctgggctt acgacgtggg 360
 tcgatcagat ggggaatatt catgggcat atgagccggg aaa 403

<210> 18187
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G9

<400> 18187

aactcccgca tacaacctgg acacgtggga ctgagagatg tgcacactgg tgaaaaagac 60
 atcatgatgc agagtatcgt cctggcagac accctcaagt acctgtacgt acatttcccc 120
 cgtccatcag tcatagccgt cgacgagtgg gttttcaacg ttgacgtca gcc 174

<210> 18188
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H10

<400> 18188

agctttgatc acacacagga agttgagatc agaaaaatgc aggctgccgc tactgccgcc 60
 gggttctcgg ccgtgtgcc cgccaagggc aggccggcg cgaggagcag ggtggtggcc 120
 cgtgtccccg ccacaaggag gagcgtccgt gtagctgccg tcgtcgcgac cgaggccgcg 180
 cagatcgact acagctcaag cgtctcgggtg ttcccgatgg aggcctgcga cctgcttggt 240
 ggcgacgcgt gcaacggggc catgttcccc gagggcaagc ccgcctcggc ggccggcgcg 300
 gcgagcagga gtgtggtcgg ggtggacagg gactacctgt cctacgacga gccaaag 357

<210> 18189

<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H11

<400> 18189

cttccaccgt ctcctccgc ttccccgtgc ggcgggtgccg ggtcgcgccg tgccatggcg 60
cccgcccttct cgggtctcgtg cgcgcccggga tctcgcgcc cgtcggccgc cagccccggc 120
cccagcgtcg tcgtcgtcgc ctctcccaa ctccccgcgt cgtcgcggag cagcgaacgc 180
aggagagcac caggcctcgc gctcgcgccg gccccgggtg tcggcggtag ggatggcggt 240
ggcaggtgga gagcaggcat ctctccttc ccttctcgc cgcggttctt cacagggaac 300
aagggggaga aggacgtga gaaggcgatg aggctcaagg aggagctcct cgacgccatt 360
gcaccgct 368

<210> 18190
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H12

<400> 18190

aggaaacctc tcaaacccta gccgcctcct gcaagtttca gagctcagga atctgcgcc 60
tggcgagtga gacggagacc ttgcatttc aggctgagat caaccagctg ctctcactca 120
tcatcaacac cttctactcc aacaaggaga tcttctccg cgagcttatc tccaactctt 180
ccgatgcgct ggacaagatc aggttcgaga gtctcactga caagagcaag ctcgatgcgc 240
agcctgagct tttcatccac cttgtcccag acaaggccac gaacacgctc tccatcatcg 300
acagcggcat cggcatgacc aagtccgacc ttgtcaaaa cctcgggtac atcgccaggt 360
ccgggaccaa 370

<210> 18191
<211> 91
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H2

<400> 18191

agaccacgcg tccgcggacg cgtgggcttc gactgtacat gagaacaaag actaaggaga 60
gctccattcc cgtacaagga acacacaagc g 91

<210> 18192

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H8

<400> 18192

agcccacgcg tccgcccacg cgtccgctta ggcccaaat atgctgataa actgggacca 60
ggctttcagg agtactgcaa gacataccca gaaaattatt gcttagccca gcttatctat 120
tggatagcc agaattcaga acctgaatct agattaacaa gagctagaaa aggttgcatg 180
tcgttgccag atgtctcatc cttctatgtg aagtctgcaa agccatcaca agagcgagct 240
tatggaaaca gaactgtgag attcatgtta tcgcgcattg aaaaacaggc acaaagacca 300
tggccaaagg ataggatatg ggtgttcacg agtgatccga gattctttgg t 351

<210> 18193

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H9

<400> 18193

gccatgccta ggtatcaagt gggcttgaca aaggatgatt caagtagtag acactctgag 60
tggcggcagc ctagcacaga tgatgtgcgc aagagcaagc tcgggccaag atacttcacg 120
gcgtttggcg tggatctgtc ccctgataat atggcagttg ccattgtcta ttttgtgcaa 180
ggggttcttg gtcttgcaag gcttgctgtg agcttttact taaaagatga tctccatcta 240
gatccagctg agaccgcagt ggtatctggt ttctcatcct tgccgtgggt gatcaagccc 300
ctctatggct ttatcactga ttccattcca ctctttggat atcggaggat gtcgtaactt 360
tttcggtc 368

<210> 18194

<211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-A10

 <400> 18194

 acagacgcgt gagcggacgc gtgggccgcc cactggtgg cgcaaagcaa agcaggatgg 60
 tgctgggttc gctgtatcag attgtgagag agagcttcca gctctactct gatatctgcg 120
 aggtgctggc ggtgctgctg gacaggttct ttgacatgga gtatgcggag tgcgtgaagg 180
 cttttgaggc atatgctagt gctgcaaagc agattgatga gctctctgca ttctattcat 240
 ggtgtaaaga tactggagtt gcaaggatcat ctgagtaccc agaagtgcaa cgtgtcactg 300
 ataaattgct ggggacgcta gaagagttca tgacggaccg ggcaaagagg cctaagagcc 360
 caccacggga gcctgaacct gagcctgtta a 391

<210> 18195
 <211> 158
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-A11

 <400> 18195

 acccacgcgc ccaccacgc gtcagcgtaa ataagaagtt gtctgagatg aaatcagata 60
 atgaaaacaa ggacaaagat gcccaactgc gacgtcagga actgaaggaa gtcataagcaa 120
 agcaacaaga gctgggtttt gaccacctg agctaccg 158

<210> 18196
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-A12

 <400> 18196

 ttcccgttac cgaccacgc gcccaatcca atcctgaact tcttctatta cctgctggtt 60
 gagatagtgc cttcagctct ggtgctcttc attctacgga aactgcctcc aaagcgtggg 120
 atcacacaat accacccgat ccattagaga gcaggccttg ggaacaggca aagggtttct 180

ggtggatagt gttacacaac gtggtaaata cagaacggag agtgaaaagt accactcgag 240
 ctttgcccag ctttttatac ggaagtcttt agaatcccag gttgaaattg tgtgtaaaaa 300
 tgcgatctct ttcactaaga tttagaaaat gtaacttata atactttgtt attctcagtg 360
 cgtatcatct gttcacattg caaa 384

<210> 18197
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-A2

<400> 18197

agaactgtaa gacgtatagt gatggcagca gccgcaaagc atctgacccc ggtagctctg 60
 gagcttggtg ggaaatcccc tggtatcctg gattcaaattg ttgatctcca tgttgctgca 120
 aagaggattg ttgttgcaa atgggggatgc aacaacggcc aagcatgcat tgctccagat 180
 tacatcataa cgacaaaatc atttgcaccg gagctggtgg cctctttcaa aagagttttg 240
 gaaaggttct atgggggagga tcctctggaa tcagcagact tgtctcgtat tgtgaattcg 300
 aagcagttca aaagatttga caaatttga 329

<210> 18198
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-A4

<400> 18198

gtccaggagt gttgaccgta ggaactttgt acacatagaa tacttggtga ggagagggaa 60
 gaagcagctt gagcagctca agaatcctga tattactgga ctgctaccc ttgtactaaa 120
 gaaatgaggt ccattcattg ccagaacaaa gtatcatcat gataccggtg tttctaattg 180
 gaagatttgg aacctgccac tgatggtgtc caaataaaat aaatatgacc acagattaca 240
 gatttgatat ccagcgactt tctaatacgc ctattagaat ctgaagataa atctttagtc 300
 acctgtccgg tgagccatag taatattatt ttactcttgc 340

<210> 18199

<211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-A6

 <400> 18199

 aaccacgcg tccgactgaa cgagcactcg cctgcgctct tctctctctc gtggcgacga 60
 ctgggtgacc gccggcgccc caggcctgag gcctccatct tcggggccctt cactggctac 120
 gagcaccacc agaggattat ggattggctg gggcagaagc gcgcgagat gctgatgcag 180
 gtgctgctgg tggcgtctgc tgtggcgggc ttcctgggtg gctacgtgcg cgcggaacttc 240
 cagctcatgc tgctcgteta cgccggcggc gtcgtgctca cagcgtcgt caccgtcccc 300
 aactggccct tcttcaaccg taaccgctc aagtggctcg acgcttgccg agggccaccg 360
 cccaacgggc cccaaagtgc accccggtgt cggaccacgg gggg 404

<210> 18200
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-A8

 <400> 18200

 gctagtagct tgcaggccga ggaaagggtc aagcttaggc agtgtatctg atgagaaagc 60
 cagacttgag gaacttaaga agcaacggga gctagctgct gctaccaaag aagaggagaa 120
 aaagaagagg gaggaagcga aggccgcggc agcagcccgg gtacaagcaa agcttgatgc 180
 caagaagggg aaggggaagg gaaagggaaa atagatcgtg acgttgctgc tgactattgt 240
 tgtaaccaag aaataattgt gggagcgtcc tcaaattgct ccgtcacttg ctgttgctgg 300
 ctactgtgct tgatgttgta gcggactgat gtatcgataa gagctaagta taaataatgt 360
 ctggtatcta cattacc 377

<210> 18201
 <211> 175
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-A9

<400> 18201

gatggatcaa cccgtcgtgc gtgggtctcgt tttgtgatga gtgggagaga gaggatgaca 60
agatcgatcc tttgttaatg gagatctcgt taattaggag agctaccgct gggacttggt 120
ggtttgtaat atatgatcca accagtgatg aatcaatgca ttcacttggtg tacac 175

<210> 18202

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-B11

<400> 18202

ctcaaggcag ccagcagcgg agggaggaac cctagcggaa caggtgacgg cggcgcgcta 60
ccggtgacgg gggatacggc ggcacgtcc cctcctccat ccccggcgcg gcggcgccag 120
cagccggcct gcaggctgtt tgaagagctc gccatttaat ctcaatggaa gccaagtttt 180
tccgtttcct gaagctcgtt ggggt 205

<210> 18203

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-B12

<400> 18203

cccacggacg cgtgagcggc cgcgtggggt ggcattgcca tagaaggccc agatttcaga 60
accaagagtg aagaagagct tactcaactg ataccaaaga tacaggtgag ttcattagtt 120
gtagtactca tctttgcaag ctttttttgt atcctggtag gtcattcatc agtgatcact 180
gtgatttgct atggatgtgg caggtgatgg caagatcttc gccactggat aagcataccc 240
ttgtcaagca tcttcgaact aaactctacg aagttgtggc tgtgactggg gacggggacaa 300
acgatgcacc tgctcttcat gaagctgata atgggcttgc aatgggcatt gctggaaccg 360
aggttggcaa agagaatgct gacgtcatca ttcttgatga caacttctcc aatattgtca 420
ctgttgcaaa atggggg 436

<210> 18204

<211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-B6

 <400> 18204

 acccacgCGT cGccccacgc gTccgcccac gCGtccgaag tGcgagcgac cCacgtccac 60
 acgacacgaa cCaccaccac caaccagcag cGgcaccacg cAcccagcgc aaagcGatgg 120
 cGtcgctcac catgatggcg tCcttcgccg cCGtgggcgt ggccgcgccc tGcgcccgcg 180
 gCaccttcgc cGtggtcagg tccgccaaag tGgaccgctg cCaggagccc gCcacgctag 240
 cagcaaccga cGccaggccc gCcgccgacg gacgcgcgc cGtcatgctc gCggctgctg 300
 cGgCGggcgt gGcagccaac gGcggcgccc gGgcgcgat g 341

<210> 18205
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-B8

 <400> 18205

 aagTccccct cGtccgctc tCaccaccg cTtctatate gCcacctctc tGttgtaga 60
 agaagacact gaggatctgg cTttctggaa tCacatttct tGagaactat cTgttgaga 120
 actaaactag gCtcttgTtc atattatgga tCagcaagct aagattgatg cTgattttct 180
 tgaaccaact gTactcttag atgagacaca tTaccaggag gGgtacaaaa atggctataa 240
 tGatggtttg gCatctggaa aggaagagg gaggcagggt gGtttaaaga tgggtttcca 300
 gGtcggtgaa gaactgggtt tCtttcaggg cTgtctggat gTgtgggcgt cTgcaat 357

<210> 18206
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-B9

 <400> 18206

 tTccgGaccg acccacgcgc tCacaagtgc gAgTgctgcg gGttcacgga gGagtgcacg 60

ccggcggtaca tcgeggcggt gcgcgccag tacctgggcc gctgggtctg cggcctctgc 120
gccgaggcgg tgggcgacga gatccggcgc gaggggacca tcaccacggc cgacgcgctc 180
gaccgccacg tcgcgttcgc gcgcgcgccg cgctcccga gggcgcccgc ggaggacgac 240
ctcgtggcgg ccgtggcgcg gctgctccgc cgctgcctcg actcgccgc cgcgtcgct 300
gcgcgcgccg cacag 315

<210> 18207
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-C10

<400> 18207

attcacggac cgaccacgg cccagttaa gggcacatc acgacatcac gtagctactt 60
caaaaggagg aggatatgta agcttcatag gagatgatcg catgcaaacc agtgtatgta 120
tatggagtat atcgatctaa tgctttaggg ctcgttcggt ggcggttcca gctaaatatt 180
gtattaacat tgattagcta gaacagtttc tagcctcagc ccaagctaaa tttgaagtga 240
agactttagg taaaacagaa atgcaactat aacacaactg ggttaatttt acattcgctc 300
ggatgctgag atgtccaatt ttcaatagtg atgtaagtaa agagcaccca taatcttttt 360
ccataaaaat tctctagaaa tgtgtcaaaa aaaaaaaaaa aaggcgcccg ct 412

<210> 18208
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-C11

<400> 18208

acgaggtgat ccgtgttgtt ccaagaccaa cagttcttgc cgacttgagt tttgaggaaa 60
taaaagggtgt gtttgagcaa ttgccagagg cagttagctt gcttgcccttg gcacgaacag 120
cacatggtac aagggccagg tattcaagat tgtacagaac cttagccagc aaagtgacgg 180
ccttgaaaga gactgttgca gagatggaga gaggtggtgt tttcaaagat gtacgataaa 240
tgctgtgtta ttgtacagtt acttatgata ttgatgttgt atatggatgc catttgtccg 300

catcccttgt aactgtactt gcttttacta tgtggaaacc tatgttgtaa cactattctt 360
 tggcaagaga 370

<210> 18209
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-C2

<400> 18209

cccacgcatc cgccaactcc gacgacgccg tgggtgactc cgccgacgac cgcctcatcc 60
 gcggcgcgcc catggacagg cactacagct tctggaaggg cgccgacgac ctgcctctca 120
 actcctacct ctggtgggtc gccggggaca aaatccagat cctgaggggc gccgacaacg 180
 acccgagcaa tgacatcgtg gagatgaagt ccgaggacgc ctaccggctg gtgctgcacc 240
 aggtgggtccg gtggctggag cgcaacgtgg accccggcaa gtcgcgggtg ttcttctca 300
 acgcttcgcc gacgcacac 319

<210> 18210
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-C7

<400> 18210

cttctacgcy ctgatcaagt ccaacgagac gttcctcatc accatcaacg cggccggctg 60
 cgtgatcgag accgtctacg tggatcatgta cttcgtctac gcgaccaaga agggcaggat 120
 gttcaccgcc aaaatcatgc tctcctcaa cgtcggcgcc ttccgggtcca tctcctctct 180
 cacccttctc ctcttcaagg gtgacaagcg cgtcgtcatg cttggctgga tctgcgtcgg 240
 cttctccgtc agcgtcttcg tcgcgccgct cagcatcatg aggcgggtga tccagaccaa 300
 gagcgtggag tacatgcctt tctcctctc cctctcgtc agcctcagcg ccgtcgtctg 360

<210> 18211
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-C8

<400> 18211

agcggacgcg tggggttcca aggagctgaa cctggccac cctacacaac tggatgaacat 60
ctagttgaga atgcaggaaa aatgggttcta ctagataaat tgctgcccac gctaaaggag 120
cgtgattcca gaggcctaata tttttcacag atgaccaggc ttttgatat cttggaagat 180
tatcttacgt atagagggtta tcagtattgt cgaattgacg gaaatacagg tggagaagat 240
cgtgatgcat ccattgaagc cttcaataag ccaggaagtg aaaagtttgt tttcttactt 300
tcaactatgg caggtggcct tggatatca 328

<210> 18212

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-C9

<400> 18212

ctcaactcaa agaattattca tccatacaaa tatgctggag agaacgttga tgtgcaaggat 60
cttaatatgt tcaaaggtaa agtcagtgtg gcagatatga tagttatctc gccttctgaa 120
gtaacatcat caaaatatga tggaactctg aaatactggg aaagtcccat tacccttgct 180
gacattctta aaaatgagat ccgtgatggg cagtttagct tcaggggcaa acgggttcta 240
aagcttggat gtggatatcg cctctctggg a 271

<210> 18213

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-D10

<400> 18213

agcgcggcgc gtcgggttcg aggtcgtcat cggggacccg cccttcaacg tcgacgtcgg 60
ggagttcgcc aaggagggtga acgccgtgga cgtgctggtg ggcgtgcacg gcgccgggct 120
caccaactcg ctgttcctcc ccacgggcgc cgtcttcacg cagatcaacc cgtacggcaa 180
gatggagcac atcggggagg tggacttcgg catccccgcc gtggacatgg ggctcaagta 240

catcgccctac tccgccggcg tccaggagac caccctgggtg gacacgctgg ggcgcgacca 300
 cccggccgctc aaggaccccg agtccatcca ccggagtggg tgggggaaag tggccgagta 360
 ctacctcggc aagcacgacg tccggctcca cctccaac 398

<210> 18214
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-D5

<400> 18214

agtcccaggt tttatcctag caacaggatt tgggtgcatca ctgtatttcc tggcaaagaa 60
 aaatatgaac ttaggtaagg ctgcattgat cactgtcggg ggacttgcag ctggtgcaac 120
 tgtcggatct gcagtggaaa atttcctgca ggttgatata gtgccctttc taggcatcca 180
 ctccccgcc gtcgttgtca gtgaatttat tctgttctcc cagttgttgg tatcactggt 240
 tgttacgtac gatctgaaat caagctgtca tctgatcat ggcattgtaag taactgaaat 300
 ggttcgtgtt caaacttcac agggtcacgg aaatgcctat tttccgctca 350

<210> 18215
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-E10

<400> 18215

gaccacgcg ctcaggagc ccttacagcg cctcaagtc cgctggggct gcctccagaa 60
 gcgcaccgag gtgaagctgc aggacctccc cgtcgtgctc ggcgcctgct gcgtcctcca 120
 caacatctcc gagcgcgcg gagacgccgt cgaccccgac atcgcgttcc agctcttcga 180
 cgacgacatg gtggccgaga agcccggtcg ctcacaggct gccgtctacg cgcgcgagaa 240
 catcgccac agcctcgtec accggggaac agtagcagcg ccgcccgcgg cccaggttc 300
 gccttcaagt gaactctgac agctggagca aggagaaaca cctcgctttc tcg 353

<210> 18216
 <211> 315
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-E8

<400> 18216

aaagagtttg tgcaaactcg gtcggagtg tgaggcgagg gcattagtgg acgacatgat 60

gaagaagggc acaaagccaa attgggtgac ctacaaccat ctgatttatg gattctgtaa 120

ggacggggat ttggaaggaag caaagcgtct gtacaaggag atgggaagaa aggggcttgt 180

tggggatagc gatttctatt ttatgcttat ttattacctt tgtaacgggtg atgatttga 240

cactgccctt ggactataca atgaaatagc agctaagaat tgggtgccat gcctctcaac 300

catgaaaatg cctgt 315

<210> 18217

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-F10

<400> 18217

ccaaccacg cgtcagcttg gaatgggtgg aggctccatg taccgcatgc aacagggagc 60

aggtgggctg cctgcaggcg catttggtga aggaggaaac taccctcttc caggttcttg 120

tttccgaggc caccgacctc aaggtggaat gtctcctcct gggccagggtg gcagggctcc 180

tcctatgtat cccaacgtgc caccttattt ctaaagtgtg tgacaactct tgggagcata 240

tcctttgaaa tggttgtgct gaattcacia gtgttgtctg cttacatgga tgccttgcac 300

attctggcta cttctgatct ggaatggaat gtggaatgag tttgcactcg cagtttccct 360

tattaaggga tacatgaagc taggt 385

<210> 18218

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-F12

<400> 18218

aaccgcgtgt acaacgaggg catgaagaac cactcgggtga tcacaccaa gaagctgctg 60

gactttctaca cgggcttcga gggcggtgctg acgctggtgg acgtgggagg cggcgtgggc 120
gccacgctgc acgccatcac gtctcgccac ccgcacatct ccgggggtcaa cttcgacctg 180
ccgcacgtca tctccgaggc gcgcgcgttc cccggcgtgc gccacgtggg cggggacatg 240
ttcgcgctcg tgcccgccgg cgacgccatc ctcatgaagt ggatcctcca cgactggagc 300
gacgcgcact gcgccacgt gctcaagaac tgctacgacg cgctgccgga aaatggcaag 360
gtcatcgctg tcgagtgcgt gctgccggtc aacaacgagg gcaaccccaa agggcaaggg 420
gtccttc 427

<210> 18219
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-F8

<400> 18219

gcgagcgcaa catgcaaaca cgtccaatct ggtaccgagg ttacaggcgt tgcagttata 60
gccccttgat ctcatctcct tgteccctggg aggggttggtt cagttctatc acaagcttcg 120
ctctgttttt ttttatattc accttcattg agaagattgt agagtaccat aggctgaggg 180
aatagctcgc ttgttgaatc ccagtgtttt agtccggttt agccttagcc atgaatgtaa 240
aaatgttgta aaattgtcac cctgccttac aagtccttcc a 281

<210> 18220
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-F9

<400> 18220

acggacgcgt gggctaccag gaggccctcg gcgggctgca caacctcttc ggcgggccga 60
gcgtgggtgcg cgtgtcccag tgcgacgggt cccactgctt cgccgtgacg cgcgccgccg 120
cgggcccgtc ctgcgccgac gtgctccgcg cgatgcagca cgagcccgag gtgatgtgcg 180
aggtgctgaa gcagaggacc gacggcgcca cggccgcgcg cctcgcccgg gccttcggcg 240
caatgccgta cctggtgttc gaccccgagg ccgcgtgat gtccggcggc gagagcagcg 300

actcggagcg gtcgggccc ggcgccgagg aggaggaaga cgatgaggag tgggagttca 360
 tgcgcgggct caccgtccga tgacgtgccc ggccgcccgg ccccg 405

<210> 18221

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-G12

<400> 18221

agcatgttgt catgggtcag ttagacgttg cgtctgagaa acttcagaga gaagggtccc 60
 ggaggagcgc aacataaagc ttttgatcgc acaaatgcat gttgtcatgg gtcagttaga 120
 cgttgcggtct gagaaactac aaagtcttat aaatgaggat cctcgggatt ttcgggtctca 180
 tctttgccag ggcatttgtt atgcactttt agacagaaaa gaagacgcag atatgcagtt 240
 tgatgtatac agaagccttg tgccggatga attcccagat aagagtttta tcagtgatgt 300
 tatactggcg gctaggacgg agtcacatga tcggctacaa aaggaatttg actctgagtt 360
 tcaagcgaag aaatgatata ttaagttttg tataga 396

<210> 18222

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-G4

<400> 18222

cgtaactgg cgcacacctc ctacttctct ttctgcccc atctgcctgt tgatcgctgt 60
 ccgtccagc tcgcggatgc tgccgccta ggtgatgctc gtctccctc tcgcacgggt 120
 ggccgggtgg ccctgtgcc gttctcagg ccgtctcagc ttcgctcgat gctgagttcc 180
 tctccagcgc gcggattcct ccctgcgtcg cgcgtgagtt cggcgtcgaa ctccccaacg 240
 cgcaactcac tgagctcgtc cctgcgcgcc atgatcacca gtcgtccgcg cttgctcgga 300
 ttctcgctcc tgcattgcaag ctgtctgtcg ggccaccttc atccccagtt gtgctcgcgc 360
 caactcctgg gttacgcac 379

<210> 18223

<211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-G7

 <400> 18223

 acgccccctcc tccctccgtc tcgtctccca ggtcatggca aaagctggag caccgggaaa 60
 aataacaagt gggagataaa caggaagagc taggtgaata cttagagaaa aggtcccca 120
 cccccccac gcaggtgaat actacaagta ggagtgtaca aggaagacag ccaatctgcc 180
 cgtgactgcg agtgaattgc tacggtgtgg tggtagttg aaaacttgag gtcacgatga 240
 tgggagggcg gctgatgatg gatcagagcg tgggtttccc tggcgccac aacttcgtgg 300
 atctcttgca gcagaacggc gaccagaacc tggggttcgc ctcaatcatg ccgc 354

<210> 18224
 <211> 232
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-G8

 <400> 18224

 aggagagaac cggcacagcc gccgcagtc gcagatgtcg atcgtggtgg catcggaggt 60
 cgcgaccgct ctccgagcc gcggcgcggt cgtcgccctc gagtccacca tcctctgcca 120
 cggatatgccc taccgaaga atctccagat ggccatggag gtggaggcca tcctcaggga 180
 taacggggct atccctgcaa ccagagccgt cgtggacgga gtccctcacg tc 232

<210> 18225
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-G9

 <400> 18225

 agttcgagca ccaggatgct tccttcagta cagtagtccc catagagaag gggacctcac 60
 aaacatggtc cgggccgttg tttgatccag cagctctcgg gcagtcgagg cggaagaagc 120
 aaactaccct agatgctaag gctgctgctt actcaaagca gtcctaaaag gaaaaggag 180

ggatacgagc ccgataacaa aatgtcgttt tcttgggtgag catgtggagg gaccgtggga 240
aaggttcacg gcctacggat gaattttctt gttttgttcc tctgggtggtt ggaaacaggc 300
aacaatgcgc tgctgtaggg tgaatcttc eggattgtgt acatgtcatg tggtaacggt 360
tccaagtact gtttacatgc ttctgaacaa gctgccgtca cccggacggg accttagggg 420
ttttagaac 429

<210> 18226
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-H12

<400> 18226

ttcccgagcc gactcacgcg cccactcaag tcggaactac ggatccccgc ttacgttccg 60
agtcgctct cagccgccc aggcccttgc cgcggcccct tacggctacg gcagcgacct 120
gctcaggccc atcgacacac agacgatcat cacaccctcc gccgtcgtat cctcaatcgg 180
cctcgctcgc gtcttcggcc tcaacggcca cacggtgccg tgcgacaggt gcgctgggaa 240
tgggggcacg aaatgtgtgt tctgcaatga tggcacggta actgttgaaa ctccactcgt 300
tgagtgccgt gtatgcacac gaccacggct aatactttgc aagaagtgtg ctggttctgg 360
atactccaag cggttgtacc ggaatccccg tttggctggc attcagtgcg gtttt 415

<210> 18227
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-H2

<400> 18227

accgcccgt ccaaccagtc cagatagatc tttccccgt cctccctcgc ctctgcctcg 60
tcggcatgag atttcagta ccaacgccgg tcgacaccta cctccttcc ctctcgct 120
atggcccata ctgttgtgct caagggtggc atgtcctgtg atggctgtgt tggagctgtc 180
aaacgggtcc tgggcaagat tgaaggcgtc gagtccctac acgtagacat catggcaaac 240
aatgtcaccc tgcatggcaa t 261

<210> 18228
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-H3

<400> 18228

cgtccacggg tgaatgggcg gacgcgtggg cggacgcgtg ggtggagttc aattacgagg 60
agacaccttg aaagatgcta cagaagcatt cccattcacg cgatgggaag cagcttctgt 120
tatgcccattg acagaaattg agattgagaa gcagcctatc caagtaactg aagttgcagt 180
tgtgggcaaa tcggtcatcg aagaggagct gccaagggt catggtgaga cctcaaattg 240
tttgcaagag gcctttgatg atggcataga cgattggttc caggaggctg atcgtgctgg 300
ccaccaact atccacagag gtgacga 327

<210> 18229
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-H4

<400> 18229

tattccgagt ctgccggcgc cccaagtgcc cgagctgcc a gtgccgcgg tgcccagagct 60
gccgatgcct caagtgccgc cggtgctca actgccgggc gtgctgctgc cgcccgccac 120
ggtgccgtag cccgtatgtg cgccttgctg tgatgctgta ccgttccccg tgccgtcctc 180
tcttgtagca ccaccgccgt cgcgtcgtca ccgaccaccg acgagcctac agacgtgcaa 240
atgctgcctg gtacacacgt gctgccgcgc acgccctgtc gtgtacctgt gtttacgtac 300
gacttttttg ttgtt 315

<210> 18230
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-H5

<400> 18230

accacgcgt ccgccacgc gtccggcagg ataccatcgc cgacgtggtg ctgtcgccgg 60
 aggagatgga gatgtacgtc gacttgcacc ccttcaccaa tacgtcgccg tacacggtgg 120
 tcgagaccat gtctctggcc aaggcgctcg tgctcttcog ggaggtcggc ctgcgccacc 180
 tcctcgctgt gcccaaggcc tgcgataggt cgccggtggt cggcatcttg acgaggcatg 240
 atttcatgcc agagcacatt ctggagctgc accctgtcct tctgaggagc acgtggcaca 300
 tgctccggtg g 311

<210> 18231

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-H6

<400> 18231

aatcatggag aggttcacgc tgaagagaga gttgagaacc tgaacaagtt ccgcaatgaa 60
 gagggggatt gtccaacatt agtatgcact gatctggcag ctagaggcct gcacctgcat 120
 gttgaccatg tcatcatggt tgacttccca tcgaattcta ttgattacct tcacagaacc 180
 gcgagaactg cacgcatggg 200

<210> 18232

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-H7

<400> 18232

taaacctttc ctagccagca agtttgttgt actccaaagc tgagcgccaa cctccttcca 60
 atggtgataa cgctcatggt tctctctgtc tcctcggtgt caagcatact cgaacatggg 120
 ctcaacgtcg cacaacgccg ccgggaacca cctaatacgc gatcgctcga ttcacgactt 180
 ctccgatcaa aatttatacc acctagaaga agtggtgttt gaacgaggag tctactccag 240
 tggctgctga tcaagtggcg gagccatcta actgggtatt gggtagaaag gtcttgagcc 300
 tcttcaatgc aataaacgca agccccgggt gcattttccc ccttccgtgt aattt 355

<210> 18233

<211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-H9

 <400> 18233

 agccgtctcg tctcgctcgg tctgacctct cctgtctcgg tctccagtct cgtgctttcc 60
 acaagtccac aaccgtacca gcaccaccgc gccatggcgt cctccgccga tcccgatgcc 120
 gccacgccac catccgcgcc gcagccggag cccgcacgga aggcagtccg cgtgggtggtg 180
 aaggggagcg tcacgggggt ggggttccgc gactggacgg cgtccacggc cgagtcgctc 240
 ggtctcgccg gctgggtccg caaccgccgt gacggcagtg tggaggccct cctctccgga 300
 gaccccgcca agatcgaaga catgataacc cgccgcctcc cgtcggggcc cccagaccgc 360
 caccgtc 367

<210> 18234
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-A1

 <400> 18234

 ggggtgggag gacgcgtggg cgtggtgtgg gagaagttcc agggaaacga gagcttttct 60
 gtgcatgcgg caataattcg agatgggtccc atgttgggtc ttgtgagggc cctgctatcc 120
 tctcgtgtcc ggtgtcgtat atcagcagca atggcccggtg tgactggata cgtccaggtg 180
 tgccagcgcc gtggtgctct ataagtgtg ttagtccctt gtgggcgtgt gtgttccatc 240
 ggataatcca gtt 253

<210> 18235
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-A10

 <400> 18235

 agaagctagc gttcaacaga ggaagaagcg agagagctga caagaatcga ctgccatcaa 60

tggctctggc gccggcgccct ctccagtgtc tcctcacgag cagcagaccg gccgtatgca 120
 cggcgacgcc gcccaataag cgcgcgagga ggccgtcgag gatctcgtgc agggcgctccg 180
 gcgatgacaa ggacaaggtc ccgtcgtcgg gagggagcga tcttggggtc aagcagctcg 240
 ggaagctggc catggtcgcg ctggccgccc gcgtgctggg gtcgggcccc gtcgacggtg 300
 ccgtggcggc caagtccggc ggcagggctc gcgggcaagg gttccggtec gcgccccggt 360
 cgtccggccc tcggatcaac aactccagga ccaacatcta catcaaccgg 410

<210> 18236
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A11

<400> 18236

aacggacgcg tgggtttttt tttttttgta taatttacac catatttcac tgataatgtc 60
 tacaaggacc aaagcatgca tgcaaatacg tacactactg gtacaatctc tgagcccatg 120
 ctcccttctt cacaaatact ggtacatctc ctgcagtaga tatacgaata cgtacgtcta 180
 cggtagatgc atacaagtac gtatacgccct tcgctcactt gccggggacg aagttcgtac 240
 cgtacgtca cgcgttggtg ttgacagggc caccgatgtc gtcggcgagg ttctcaacgg 300
 gacccttgcc gg 312

<210> 18237
 <211> 144
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A2

<400> 18237

gcacgctcgc gcagcagcag caggcggtgc gcgaagtgt gcagtcctatg ctgccccccg 60
 gcgcgcgggc tcaattccgg ccgtgtgtg gcaactgacgc agtgggcctg ccagttcaac 120
 gcggcgctga ccgtgcccat cttc 144

<210> 18238
 <211> 351
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A4

<400> 18238

acggacgcgt gggcggacgc gtgggcggac gcgtgggttt tttgggtgtt ttttttttgt 60

ttttttttta gatggaataa aagaatgcat ggtaacaaaa acacaattta ggaacttgtc 120

cgtgatgcaa gcgtacagca gcctgggtgtc ccctagaccc tcaagtacaa ggaacaaaag 180

cacaactaaa cgacaccgta cagctgcggg aatctagaga atgacctgac ctacaacaga 240

caadaatcag ctatatatgc ccagagaatag gggagacaat cgccagacga gggataaaga 300

acatgtaaga acagatatct tagccatcag ggctatttgg accatgacgac t 351

<210> 18239

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A5

<400> 18239

acgcgtgggc gtgcgcaagg aggggtgccc aggggatcta gagcttttct gtgcatgcgg 60

caataattcg agatgggtccg agtgggggtct tgtgacggcc ctgctatcct ctggtgtcgc 120

gtgtcctata tcagcagcaa tggcccggtg gactggatac gtcgggtgctg tgcgagcgcc 180

gtggtgctct atagtgtctg ttagtccct tgtggcggtg tgtgttcgat cg 232

<210> 18240

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A6

<400> 18240

cgtcgagccg ccggcttcat cagctccggc tcgagggacc gtcgacacca agacactgta 60

cgccggcgac atcatggtgt tccccaggg cctgcgccac tggcagtaca gcgccggcac 120

cggcgctgcc gtggggctcg tcgccttcag cagccccaac cccggcctgc agatcaccga 180

ctgtgcgctc tttgccaaca acctcccgtc cgccgtcgtg gagaaggctg gcttcttgga 240

cgacgcgcag gtgaagaagc tcaggagtgg gcgcggcggc ggcgggttagc gtgttttttcg 300
agacaataca gtgcaggctg ggtatgc 327

<210> 18241
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A7

<400> 18241

taggggtgagt cctttgtctt tttgtgacct acaccagttt tcttttagtag tacgattcaa 60
gagaggttcc atgtactaat tatgttacia aataatacga tatataacgc gtagatatat 120
atccaatata tacagatgaa gcctggaacg gtggcactgc tcattttgtt gaacatgatg 180
tgcatagttg cggactttga tcatggaagc tttcctggaa cgagggcgcg gggaaacgag 240
gttgctggca gagtctatg gaagaaatga aggaaccaag ggcatacatc gtggaagaaa 300
gctgatggac gccggtaggg attcaaaccg tgggttttcc aacag 345

<210> 18242
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A8

<400> 18242

cacgcgtccg cccacgcgtc cgggtgcgtgc gctggactt caatgagccc gtgtggttca 60
aggccggcgc gcagatcttc tcggagggcg ggggggacta cgtgggcaac cccaacctgg 120
tgcacgcgca gagcatcctg gccgtgctcg gcttccaggt catcctcatg ggcggcgctcg 180
agggcttccg catcaacggc cgcgacggcg tcggcgaggg gaagaacctc taccctcgcg 240
gccagtactt cgacgcgcgg ggcctcgcg acgaccgct gaccttcgcc gagctcaagg 300
tcaacgagat taagaacggc cgcctcgcca tgttct 336

<210> 18243
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A9

<400> 18243

acggacgcgt gggcgacgc gtgggctaata ctcaggtttg gggggaaaag gcctcgcggg 60
tcgcaaaccg ctctctgttg atttgggatt tgggaggcgc tcgagttttc aggtaaacca 120
tagtttagtg acccatggct cgtactaagc aaactgctcg caagtccact ggagggaagg 180
ctcctaggaa gcaacttgcc accaaggctg cccgtaagtc tgcaccaca actgggggag 240
taaagaagcc tcctcggtac cgccctggaa ctgttgctct tcgtgaaatc cgcaagtatc 300
agaagagcac tgacctgctc ataaggaagc ttccgttcca aaggcttgctc agggagattg 360
cccaggattt caagactgat ctctgtttcc agagccatgc ggtgc 405

<210> 18244

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B1

<400> 18244

tgacagtatg agaggccacc actgcgatgt tgactggggtt tggaactatt ttgcatgtga 60
gcgctctgat agattaacca cacaacgtgg gactgtcagc aataaaacac cactctattt 120
tcagcatcaa ggtcattcaa agacaattgt tgggattcaa aaggaaatgg gtcaccgtgg 180
atctcacgaa caatacacc ttttgatttt agatcctgcg catagaactg cagatctaca 240
aaggctcc 247

<210> 18245

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B11

<400> 18245

aggctagaag cattggtaca ggtctatggc gctgtagctg gttccaccaa gaatatcaga 60
ggctctgctc catgctgtga agtcgttcgc tatggctgga tttgtaggag cagtgtctgg 120
gctgggtgctt gatttcatgt accagaggat ctccgtcagg gcaccagcc tgctgtccag 180

ctccatcttc tgggtctgca gaacagagtt ctgcgcttgc actgccacaa ggttttggct 240
 gggtatactc agtgccatgc tgagctgctt gttctgggcc ttcagctgat ttacctgttt 300
 cagtcgcgaa taatacaccg ctacagatata tgaattcaat cctagcttgt ttctgctatg 360
 tttagacaat tttagt 377

<210> 18246
 <211> 91
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B12

<400> 18246

accactattg cacaacatg gttcatctta gtgggtggtt ttgtttcctg ctgggtaatt 60
 gttgatatcc attaatgtt ttttcttcta t 91

<210> 18247
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B2

<400> 18247

atctctgatt tacgggatgg acggagcgaa gccagtggcg gccgggaagc aggacctgga 60
 agaggcgctg ctccgtatcg tgcagcagcg gcaccaccag tccctctgcc aacgacaaca 120
 aacgggtacg agcgtgcaaa gaaggacgcc ttgaagagcg cgggtgcgggt cgccgatctc 180
 ctctgtggaca cggtcgacgg cggggtgcgg gagctcttcg tcaacgagaa gcgcatcgag 240
 ctcgaggccc gcgcgctgct cggtagcatc gcgcggtgca ggaggcagac tgatgagtgg 300
 ctggcggcca ccagcgagat caactc 326

<210> 18248
 <211> 207
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B3

<400> 18248

ttgctttgtc aaggetgceg ttctgtggac ttcagaagca gccaatgtc aatgctgtca 60
 ttgatgggtga tgacatcgta gtgcaggacg gggtagacag cagtgttgct gttggcactt 120
 ccatgggcct tgtggttcct gttatccgag atgctgatac catgaacttt ggtgacattg 180
 agaaagggat aaacaaccgt gcaaaga 207

<210> 18249
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B4

<400> 18249

gggtgggagc atacagctac atcaaccgc ggttgctgac ggcgatgaag gttctgggcc 60
 ggggtggcat cgaggacatc aagtacgtcg gcaggcccc gtcggctgct accgcgacgg 120
 gcttctactc ggtgcacgtg caggagcaga cggagctggt gcagaaggcg ctgcagcgcg 180
 acgccctcaa ctaccctttc tgaaagaaac gagggccctg tagattcgtg gcattgggga 240
 ccttttgaat ttgatatagt accagtatag agagaacatg ccgtagagtt tatctgtgca 300
 gccatttggg gaaataattg ttctgactct gcagtaccgc atgagacaga ccggtttag 360
 tttgggaaaa ctc 373

<210> 18250
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B5

<400> 18250

tgccggtcaa tgggtcgcggt gtccgagcag gcgggaagge acgcgtccgc ccacgcgtcc 60
 ggctgcgacc cgctcggeet cgccgacgac cccgaggeet tcgctgagct caagggtgaag 120
 gagctcaaga acggggeget cgccatgttc tccatgttcg gattctgcgt ccaggccatc 180
 gtcaccggga agggcccgct cgagaacctc gctgaccaca ttgccgacct cgtcaacaac 240
 aacgcttggg cctacgccac caacttcgtc cccggcaagt gagggaggcg ccgccggtga 300
 ccttttaggtg tccggatgca ggtgagcgca cgctggtttt cggtttgtac catgatgtaa 360

actaatgttc aatc

374

<210> 18251

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B6

<400> 18251

aagtcctagc caggcttccc ttgccctagt gttgcgccgc cgcgcgcgat ccatccggcc 60

tctccccgcc cgccggccgc gatgtagaac ggcacgcggc tgcagaccgc gcgggggtcg 120

ggcaccaacg ggtacgcgca gagcaacaag ttcttcgtca agccccgctc cacatccggc 180

cgggggtcgg gcggggccca taggccgctg cgctccgacg ccgccggcgc ggatggcggc 240

gggatgcgca agcccaacaa ggggatgctc gagcacgacc gcaagcggca agtcgagctc 300

aagctgctcg tgctcaggaa cgcgctcgag gagcacggct acaccgaa 348

<210> 18252

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B7

<400> 18252

gcagagcadc ctggccatct gggcggggca ggtggtgctc atgggcgcgc tcgaggggta 60

ccgcgtcgcc ggcggcccg cgcggagagg gggggaccgc cgggtaccctg gcggcagctt 120

cgacctgctc gggctcgccg acgaccgga ggcgttcgcc gagctcaagg tgagggacat 180

taagaacggg cgcctcgcta tgttctccat gttcggcttc ggcgtgcagg ctatcgtcac 240

cggcaacggc cggcgcgaga agctcggcga gcacatcggc ggcgccgtca ataacaacgc 300

ctgggc 306

<210> 18253

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B8

<400> 18253

agcgggggct ggagcactca gcaactgggga gggatcgcag cgccgcggcg agatattgag 60
cagcagcctg tectccggga tctctggctc acgggctgca ggggccagca ccgctctgga 120
ccccatgac gcagcgccgc agcagctgac gaggggtgaag ggggcggcgc ggggacggct 180
gctgcacgcc ggccgccggc gttcgagtgt ccggaggatg ccgggcggcg gcgccgtggt 240
ggtgagggcc gggcctgggc cactgtcgcg gatcgagccg ggcctggagg acgacgccat 300
cgacgtgtac cgcataacg gcatcaacc gga 333

<210> 18254

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B9

<400> 18254

agcagcgagc gagagcagca cacacgcagc tagctaggag cagcagcaga gcagcggcga 60
tggcggcctc catgatctcc tcgtcagctc tggcgggtggc gcctcagggc ctgccgcccc 120
tcggccgcgc cgctcctcc ttgcgcgtcg tctgtctcaa gaagaagatc aagaccgaca 180
agccctacgg gattgggggt ggcctgaccg tcgacgtcga cgccaacggg agaaagggca 240
agggcaaggg cgtgtaccag ttcgtcgaca agtacggcgc gaacgtcgac ggatacagcc 300
caatctacaa cgaggatgac tgggtctccca ccggcgacgt ctacgtcggg ggaaccactg 360
ggcttctgat ctgggccgtc accctcgctg ggatcctcgg cggcggcgcc ctctcgtct 420
acaaca 426

<210> 18255

<211> 128

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C1

<400> 18255

atgtctagct ggtcggaaac cgtgagagg acgaatccgg agatgcaatc tggcttggtg 60
gccgttgcat tgcagcacct attgtgtcgt tatcagttcg ttatcaatta tctggcttta 120

agtgtggc

128

<210> 18256

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C12

<400> 18256

cccacgcgtc cgcccacgcg tccgcccacg cgtccgctga gactatccaa tatgaaaaag 60

atcgcaatgc aggttttcta tcaccatttg ggtactcaac acctacagta acatcagcag 120

tagatgctat atgttcaatg gagtgggtatt ggctcttggc atcaaaatcc caagtatgca 180

tcgaggggaa atattctata agaatttggg gatggaaggg ttatcttgta cagtacacct 240

ttcttggtcaa cgaagggtcca cctgttcttc ttgtgcatgg ttttggagct ttcttggtgc 300

atcttcgtga caatatacac aagattgctg ctacgggccca ccgagtttgg gcaattactc 360

ttgttggctt tgggaaatca gagaaaccaa atgtcaacta ttcagaactt ttctggtccg 420

<210> 18257

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C2

<400> 18257

gaccgcggga tggccgcggg cctcggagtc cccgcgcgcg gggccccgtt catcctcctc 60

cgcacctcct gtttctctcc gtgggcacct ctggtgcccc gccgtcgact tctctctggg 120

cctgccactg ccggtgatcc cccgcccccg gcgctcgcgc caacttcggg gctcgcgcgc 180

ccgcccgttg tgggaacgcc ggagcccccg ctgccgttta cggccgtgga ggcggagatc 240

cttcgcgata ttgagcccggt cggcgtgggc atcaaggata tctccactc cgacttatac 300

tgg 303

<210> 18258

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C3

<400> 18258

agcaggagag atgcggcggc ggcgggggca cacgtgggcg ggggtgggga agacggccca 60
cgcggcgtct gcgcacgccg cgctcttctg cttgactctg gtccctcgcg tcagggtcga 120
cggacgcacc acagactcct ggtggataat attcattcca ctatggctct ttcattgtag 180
tgttgcgctt ggaaggtttt caatgcctgg cccttcatta cctcatgggc gtcattgggc 240
accatgtcat tcga 254

<210> 18259

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C5

<400> 18259

cgcagcagca gcagcagcgg ctgaggctgc ggcggagcag cttcagcatg gtgcggcgcg 60
agcgcgagcg cgcggcgcgg gatgcgtggc tgggccacgc gtgggagatg aagcggagct 120
ggcaccagcg caacggcggc gctcccgacg cgggcacccc cgtgggtggtg gtgggtggga 180
cgtcgtcgtc gtcgtcgtcg cactcggacc atcaggccac cgcggcgggc ggcagggtgg 240
ccatggacgt ggcggaggtc ggcgcggtggc gggacctcgg gctggagctg ccctccgact 300
ggcacgtgga gatccag 317

<210> 18260

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C6

<400> 18260

cacgcgtccg cggacgcgtg ggttggaagc gcttgacacg cagggtgacgg cggcagcgac 60
ggcgctcaga ctccggcttt tagtgacggg atgggcggtt tgcccctccc gcctcttgcc 120
agtcccagcg cgccctcgcc togggtcctc tgcacaccgt ccagtgcact tgcgtggtgg 180
actggataaa gttttgcagc gagtttaccg caagtgatgg ggagacagca tgcattgctt 240

gataatctta atcagggggg gccaggggtt cgttacgatt gggatgatggg tttaaactgt 300
cagctgctga taatgatgtg gttgcaactg 330

<210> 18261
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C7

<400> 18261

gaaacacacc ttatgcgcac ggggtcgagg atgcagggtg gaacacgaaa acaggaattc 60
ttgcacaacc agatgatgca aagagggatg tggaaaccgc tcgcaagtcg cctttgcacc 120
caagggctca caaaactaat cctcaagacc aaggtccaag gaaccaccg gatcgaccaa 180
gacctgaact tgacaaccaa cgacactctg accggcggag gcaccgtgag tctgcaccac 240
gaagacattg ggggcgtcag ggggtgccgg ggagtagcgc tgggacacca agaagccct 300
acagaacagc tgctgggtct gcttc 325

<210> 18262
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C9

<400> 18262

acggacgcgt gggcggcggc gacgagaagt ggcgagcccc gagagcgggt ttagttagag 60
gctacgggcg gtcgggcgcg gcggcggcgg cggccatgag cagcgggagc gagagcacta 120
ccgccagcag gtggcccgag ctggccacgc tgcgcgccct ggcgcgcgac gccgcggagc 180
agctgcggct gccgcgggccc ggcacgtcgg cgtcggcgtc ggcgtcgtcg tcgccgtggc 240
gcgggcgcga ggaccacctc cagggccacg gcaagacggc caaggtgatg cacctgctgc 300
tctggggacc caagtgaagc ggcgagaggg caccgtaccg ccggcggttg tcgttttgc 360
ctgcctgcaa tccgccccgc acggactgta ctgtactgta cctatacacc tatatact 418

<210> 18263
<211> 324
<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D1

<400> 18263

tgttgagaaa tacgaaagtg gaatgtgggt cgagtcttag tcggatattt catatctctt 60

ctcttcttgt ccaaacagat ggaagaggag atgatttgtg ctgaccggaa aatccatata 120

tctcgtagcc atttagagca tacggatcga ttataagaa tcgaatgttg ggtttttatg 180

ttattttgtg atagaatgga aagaattcta gacagaagggt gttgggaatt atgcctacat 240

cacgtattgg tggaggggtc agtgattgga cggtcgcaga ttgtaccaat attttacttc 300

aaataattcc gacaagctcc gggg 324

<210> 18264

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D11

<400> 18264

agcgaaaccg cagccgtgac ggatccagcc gaaccccctc gcagtcgcag cccctcacg 60

ccacgcgaca tgggcaagat caggatgccg gtgccgtccc tgttccgccc ccgctcctcc 120

aagccgcccgc cgccgcagcc gcagcagcag gcgcctgccg cgggcgacgg cgacggcagc 180

gggtccccgg agcgggcgac ggcggaggag gagatggcgc gcgtgttccg caagtctgac 240

gcgaacggcg acgggcggat ctgcgggtcg gagctggcgg cgctgttcga gagcctgggc 300

cacggcgcggt cggacgacga ggtggcgcgc atgatggccg agggggacgc ggacggcgac 360

ggcttcatca gcctgcccga gttcgccggc ctcaacgccg cgggtggccgg cga 413

<210> 18265

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D12

<400> 18265

cccacgcgtc cgcggacgcg tggggccctc ggcctcagcg agggagggcc gctgttcggg 60

ttcaccaagt cgaacgagct gtctgtgggg cggatggcgc agctgggcgt ggccttctcc 120
atcatcggcg agatcatcac ggggaagggc gcgctggcgc agctcaacat cgagacgggg 180
gtgcccatac acgagataga gccgctcgtc atcttcaacg tctcttcttt cttcatcgcc 240
gccatcaacc cgggcaatgg cagggttcac atcggcgagg aagaggaata ggctgctggc 300
tgctgctgct ggcctcggac atgagtcgtg tgcgtttact tttacctgtg actgtgcgtc 360
tcggtgcgcg cgcgtaagtg ct 382

<210> 18266

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D2

<400> 18266

tgcagtttgg agttcgacgc ggcgagattc ttctcgatgc aggagagaag tgtaaggagt 60
gtgttgctac gcatggctct ggtgccgcac ggagcactgg tgaagagctc tgggacggtg 120
ccagattcag caaggtgcag attcatgttc agaagactaa ttgccgctgc attacatcgc 180
ttgcatcatg t 191

<210> 18267

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D3

<400> 18267

aagccgggga cgcgcgccag aggcgtggct atcttcaagc tctcccgccg cgagctcgtc 60
cgctccggtt cgcattgtcc cgcgcgcgaa aggcgcgcct cggttcagca cgtacgctgt 120
gctggcagcg cacatgttgc cgtgcgcgtc cctgacgcgc ggctgcccgg tgcgaccagc 180
ccaccaagct atactgcgcc accgacgggc cgcatacggg gcagccgccg cttccggagg 240
gctac 245

<210> 18268

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D4

<400> 18268

gggttgtaag ggatgtttat cggggcaggc ttgtggagga tggctatggc tacggaccaa 60
cagccagcgc ccaggagcac aaggattgca atgtggcagc tgcttgatgg ttgtggttca 120
ctaccggttt ataccacaag aggggtcata ttgtgcatcg gaagaggttg gcggcactag 180
ccgtcatccc tcacctgtat ataaaggcaa tctgggccta tagtggtgcg atgtgaacat 240
attccaggat ttgctgc 257

<210> 18269

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D5

<400> 18269

cacgatagac tgccaacaag aaaagggcag tgatggcaat acattgccaa caagaaagta 60
cccagtgatg gcaatgtatg gccacgatac acggcaactc agtgaacggc taccaatgac 120
aatcctgata taagacttgg ctttctcatt aatggcacgc ttgttggtgcc aagttgcgct 180
cttatcacco ttcagttggt tctttcttgt tggtcgtacg tgagatttta ttttactga 240
atccgggtct aggtggaggt tttcagtatt gacagatgtc agatgttcaa ctttatgtgg 300
ttatacaacc ggcaacaaca ggcacc 326

<210> 18270

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D6

<400> 18270

cacgcgtccg cccacgcgtc cgccttgta aagccggcaa tgggtgttgc acccttggcc 60
tccctgactc ccctggcttc cccaacgggg ccacgtacca cactttgacg gcaccctaca 120
atgatgtgca ccgcagtgat caaactgttc gaagacaaac ccgtggagat tgcgggcgtc 180

ctcctogaac cagttgttgg caacgctcgt ttcattccctc cagagacatg gtttccttaa 240
cgctctccgc gacttgacca ggcaggatgg tgcgctccag ggcgctgatg aactgatgac 300
cggtttccgt ctgtcttacg gtggacctc 329

<210> 18271

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D7

<400> 18271

ggggccccac tggcagagct ccgccatcgc cgacctcggc cggagcaccg agagcaggat 60
cgcgatgcac ttcgacaggg tcttttggcg caacgtcgaa gtgctgggaa tggtcggggc 120
gacgccccaaa gcgtgtgggt acttcttgaa cctgcacaaa gccagcggca atccggtcct 180
cgcggtacat ggccgccggc aggttcgccc 210

<210> 18272

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D8

<400> 18272

gtccgccctg ttctacaacc ggggggggag caagatggcc ccgaacgacg tgttcggcgt 60
ggcgttcaac ggcggcgtca agcagcggag catgtggggc ggcgagccga ggcagatgac 120
gctgcaggtc cgctggaaag ccgacccgcc catctacacc atcaggaggc gggtgccgca 180
gcacgccaca agcttgatcg tctccttcac caacgggggc gagtgggacg ggccgtacac 240
cctcaagttc agggtcgcga aggcgtggca gacggggcgc tgagcttctt caaccagggc 300
ct 302

<210> 18273

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D9

<400> 18273

agcccacgcg tccgtcggaa tctgaagacc tgaaccaagt ttgatttact tttcaaaggc 60

aagaatccag atagcagagt tgaatgtta cccatggatt tatcagctgg tgaagaatct 120

ctgaaagaag tcgtacatgt ggcagaatca tttttttcta atgcaggcgt tgactatatg 180

gtccataatg cagccttcga acgtcctgta aatatcacc cttattttgag ttaatgtttt 240

aactccctta ccttcaaag atcatgttgt tttattgtta gtagtttttg atgatagatc 300

tgctagacat cactcctttt taatcatatt ctgaatcaga tgatccctaa atgcatcaat 360

ttttaatcag attgcagaaa cggaggggtc tagaagaaag tgaggaagggt cttaaggcta 420

ca 422

<210> 18274

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-E1

<400> 18274

acaagtttgc taaaactcgg tctagtgagt cagccacacg gactgatcca aatgcttcca 60

atcctcctgt ttgtcctgcg acttctgtgg cgtctggtcg ataatgggga gcttcttatg 120

ctcagcaagc tgcatacct gcataatggaa cttatgacta cagccatcag gtgccacttc 180

ctgctcctca aacagctgcc tatggtgctt atcctcgagg atactctgtt caggcctata 240

cacaac 246

<210> 18275

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-E11

<400> 18275

cggacgcgtg ggcatgcagg ctgctgagtg aaaatgggag tggcagggtca caacgatcca 60

ttgttaggtg aaacgacatg tgggtctttg ctgcagcaac ttcagctgat atgggatgag 120

gttggcgaaa gtgatgaaga tcgtgacaag atgttacttc agctagagca agagtgccta 180

gatgtttata ggagaaaggt tgatcaggct tctagctcca ggatcatgtct cctccaacag 240
 ctttccaact ccaaactcga actgactaga ctcttttctg cattaggaga gtcattctatt 300
 tctgggtgctc ctgacaagac atctgggtaca atcaaggagc aactagcagc tatatcacca 360
 tcttttagaga cactccgcag gaaaaaagag agtacgggtga aagagtttgc tcatgtacaa 420
 cttca 425

<210> 18276
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-E2

<400> 18276

gatcgtggga gtgagtcagc tcatattcaa gctcacgggg ccccatctgg gccacctgga 60
 gcatcagcag gttcagctcc ccaaactta attcgtaagt cgggttttgg tgttctcca 120
 cagcagcctc accaagtcta tcagtcagaa gcgcatttaa gccattttat gatgcagcaa 180
 gttccgaaca gcatgcccat gcctgaacag caacctata gcatgcttgg aacgcaacaa 240
 ggtttgggtt ctttcaacat gggttgtgat caggagctt ctctcggagg gcccaggca 300
 aacacccac ctctctacgg ctccgttgggt ggt 333

<210> 18277
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-E3

<400> 18277

tacaagctac atccgggtgac acgggggttgt agttttgctg agtcatacg actgttgcag 60
 cacatgttga tgacgatcaa catcactcda tttgcagcaa ccatcaaagg tagccactt 120
 tgtgagatgg cgcgatacag tttgggtgaac cggcttgcca atccaggcat ggctcttttt 180
 gctacgagtg tacatattta tcagagcaac cgcgttatag gagtggacat agatgatggg 240
 ggcttcaagc agcaggattg tcccaactga taaggatacg cccttttgtt tgtttgctca 300
 atacgtcggc ttgagctggt tgtgt 325

<210> 18278
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-E4

 <400> 18278

 cagtggagct agctagctag tataggggaa tcaccaaggt ggcgaggcag ctcgttgtgc 60
 ttgctctgct tttcgtgata gcccggtgtg gggcatgggg cgggggagtg cgggagagcc 120
 tccgccgaca ggggtggcgt aaggatggcg ccatgcatct cggctgccgg gggcccgcag 180
 tccacgccga ccagcagctg ctgctccgct gtgcacagga tcgggcagag cccagctgc 240
 ctgtgcg 247

<210> 18279
 <211> 245
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-E6

 <400> 18279

 caagtcggcg gataaggacg gggggaagaa cgcgccatc tcacggtcct cccgcgcggg 60
 cctccagttt cctgttgac gaatccacgg tcagcggag caaaggactc aggcaaattg 120
 gggcggttggg gccaatgcag ccgtctactc tgccgccatc ctggagtagg ggactgccga 180
 gggtctggag ctggctggga acgcgagcaa ggatggtgag gtgaagcgta tcaccctcg 240
 ccacc 245

<210> 18280
 <211> 168
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-E7

 <400> 18280

 cagcgtccg cgcacagacg tcgacacata acacgtgtcc caaacactaa tttttttaa 60
 aaacaaaggc acaaccaacg acacaagacg cgcagcacia caaacacca aaacaaacac 120

caaacaacac accaaaacac caaaaaacca aaaaaaccgg ccgcccc 168

<210> 18281

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-E8

<400> 18281

acgcgtgggc agctgttcgc ggcggcgagc ggcggcgggg ggcgggggta ccgcgccccg 60

gaggcggtgg acacgcgggg ggtgacgtag agggcgagc tgtactccct ggcggtgctg 120

ctgctggagc tcctgacggg caagtcccc tcgcacgcgt cgctggaggg cgaggggacg 180

ctggacctgc cccgctgggt gcagtcctg gtgcgggagg ggtggaccgc cgaggtgttc 240

gacgtcgaac tgggtggcg ggcgcggag gcggaggagg agatggtggc gctgctgcat 300

gtggccatg 309

<210> 18282

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-E9

<400> 18282

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgccgcc cgcgcgtccg 60

cccacgcgtc cgccgctgga tggtagagg atctgcatct tcttggttc ttctgtaaaa 120

tacggagact tgggcagcat aaaaagcttg gcaaatttct gttgtgtggc atctccatgt 180

aagtaacagt ggactgcatg cagaagcgag cgttccagtt ttgcgacaga agggggcgtc 240

cgaagttggt gtactgctaa tgaacgtcga actagcatga taaaatgtat ccagcacat 300

ttggttgatt gtgtcacact agaaagccat gtgacagcgt ttggctatga tgctgtacca 360

cctgaattta catagtcct ttt 383

<210> 18283

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-F1

<400> 18283

gtctgttttc cctaaggata gagtgatttc ctgcctcttt atattcactc ttgttgtaa 60

gtccaagtgg aaaatcttgg catatgggac atattgtaat aataagcatc gtacaatcta 120

gatgctgttt tgtaataatt aattaatata ccagcccatt ggatggaggt gtttaccac 180

<210> 18284

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-F11

<400> 18284

accacgcgt ccgcattatt catggagatg atccttgtct tctacctgat ggcactgatg 60

catatgcgct agcgaagaag gtccggcggtt acaagcaaat caagcgaaca gaaggtgtct 120

cgagcactga catagtggg aggatattgc taacattcag gcagaaagat gctgacactg 180

atttaagtgt tgtcgttgc gagaagtctg gagagaaatc aaatgatgaa gtgaaaagtc 240

agctatctca tttccttcca acttctcgcc ggatcatgca gttttcaaata gggcaggctc 300

cttcgccagg tgctcgtgtt gtctatgtag atggcacatt tgatcttttc cagctggcc 360

atgttgagtt cctcaggagt gccagacaac ttggtgactt tcttctctgtg ggtatctatg 420

<210> 18285

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-F12

<400> 18285

agcgatgatg caccagcgac gaccactgat gacgtttcaa ggtgacgagc aagagccggc 60

gctgccgtac agagacctta tgggctctca gttgctgcat catttcgctg ggtagcttgt 120

tacctacaca tgcttgctag ctagctagga ggggtgggtat acggtggcta aatttttata 180

tatattaaag acaaggtaaa ttttgttt 208

<210> 18286

<211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-F2

 <400> 18286

 caaactgtcg gataagccgc gggcgcgctcg ccgtggggat ggcgtccctc tccccgcgc 60
 tcctccccgg cgccggcgtg agccgcgggc gagcgccgcc cgtgttcgc gtcaccgcct 120
 cgtcctcgag ctcggggagc aagaaggga agaagccaa gagcgggggc gagggcaagg 180
 acaccaaggc gctggagcct ccagcgccc tggtgcgcc cgcgccgcg ggaagcgct 240
 ccatatgcga ggaggaagaa ggtgaagcgg cgtcgagggc cgggggcgcc ggtgggaaag 300
 ggcccacgga ggaagagct 319

<210> 18287
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-F3

 <400> 18287

 gcgtccggca gcgtcagctg gatcctaagg actaccagga gcagacggcg cagcaccagg 60
 agcagcagca gcaccaccat cccccacc tgcaaatacca aatcgaccag ccgcccgcgc 120
 cgccgcagga cggggggcggc ggagtgaagg agcagcagca gctgctgcag gtggtggcgc 180
 agccccggga tcggaggcag caggcgctcg ccccaagcg gagctccaac aaggaccgcc 240
 acaccaaggt cgacggcagg ggccgcggga tccggatgcc ggcgctctgc gccgcgcgga 300
 tttccagct cagcggggag ctcgccaca agtccgacgg cgagactgtg 350

<210> 18288
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-F4

 <400> 18288

 accctcaaca agtctcagtt aggagacgct gactttaatt gggactgcaa tactcaagac 60

gttgagaagc tgttacgctt gacgttggct tggacgctgg tgacatatga tcaattggag 120
 accaacttgc ctactcatt aagctatggg ataatcagtg ttgccgtcag aaagctagta 180
 tgcctcgtg ctcgatcatga ttacagtggg agcgtgagtg atgcaactat gacatatttc 240
 gacagggcggg ctacgggtgtg tctacacaac tgggtaaatt aagtcctcaa tctactgtcta 300
 cat 303

<210> 18289

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-F5

<400> 18289

tcctccgcca gcttcaggac ggatacggcg gctgcgcgct ccagtcggag ctcgtaagc 60
 tcgccttctc ctttgacgcg ctgggcgggc gcgtggaacc ctaccggcgt cgaggtagcc 120
 cgctcttcgt ctttctctac cgccttcgcg gtgtcggagc caggccagta cacgcgcgtc 180
 ttcgccaaact gcctcgggtg cgagctcaag gtcgacatgg aggtgcgctc cgccatgtgc 240
 aacgtcgacc cgggaggggg cgagggcgag tgggtctggg ggggaacctt cggcgctgcc 300
 ctc 303

<210> 18290

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-F6

<400> 18290

aatagattgg atctatccgg ccgggggtga gaagagtttt agtatttttt ttgataaata 60
 ataaaagggtg cacgatctcg accgagtagg gctgaaggac ttcagaaatc atatggaaga 120
 actgtagcat ttcgcgattc attggtaaata ttactttgat tctctagaga gggataatgt 180
 gagaccatta acacggttac agctaaactg cttgaaggcc gggcaaaata gggta 235

<210> 18291

<211> 195

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB84-026-Q1-E1-F8
 <400> 18291
 gtcacatgc acagacattg agcgcgcagg caaccacgaa gagtccctat gtttagggca 60
 gccaggaac atcagggtga tccaagggtc ggccagtaga aaactacaga tctgatctga 120
 atagctgac atgccaatg ttcataagatt tgtccaggct gactgatgcg ggccgcatat 180
 aatacttttg cattc 195

<210> 18292
 <211> 332
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-026-Q1-E1-F9
 <400> 18292
 agctagttct agatcgcgag cggcgtggct tctctccccg ctccctctct gcccttttc 60
 ttctctctca gatccgccga tccccgtcc ctgcgcctcc gtctcatgat ctctgcgcct 120
 ctgcgggtgc ggctgccggc gccgaaggct gccgccgggg ggtcgttctt gctcggcgcg 180
 tctctcgctc agtccaatcc caatcccaag cccaagccca gcaggatccg ctgcgccgcc 240
 gccacgctgt acgacgtcct gggcctgcgc gccggcgcca cgggcccggga gatcaaggcc 300
 gcgtaccggc gcctggcgcg ggagcggcac cc 332

<210> 18293
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-026-Q1-E1-G10
 <400> 18293
 agctttgaat atgttgggtc tggcgaagcg aattgggtgca aggtttttgt tgactagcac 60
 aagtgaagtt tatgggtgac cgcttgagca tccacagaag gagtcatact gggggcacgt 120
 taatcctata ggtgttagga gctgttacga tgaggggaag agaacagcag agactttaac 180
 tatggactat catcgtgggtg gtgggtgtga ggtgcgtatt gcccgatttt tcaatacata 240

tggctcctcgt atgtgcctcg acgatggctcg tgtggtcagc aattttgttg cacaggcact 300
 gcgaaggcaa ccgatgacag tctatgggtga cggaatacaa actcgaagtt tccaatatgt 360
 tgctgatctg gttgctggac tgatggctct aatggagagt gat 403

<210> 18294

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-G12

<400> 18294

agcggacgcg tgggttgtgg atgaggtcaa agacaaaagt ggccaacaga tggatgtgct 60
 ctcatggaag caggaagggtg tcaaaaacct tcctttgcag gagaatggat gggactgcgg 120
 catgtttatg ctcaaataca ttgaattcta cagcagagat atggacctca ttttcggaca 180
 gaagcaaattg cattaattcc gcaggaggac agcgaaggaa atactgagtt tgagagctga 240
 ataaaccttg gaggacatca taagtcattt tggctatggt cagaattggt ggaatatgta 300
 cttaacaaat ggggtgcagcg gcttaaaggt atagcactga gtgcaaggaa tttggaaatt 360
 ctccagttgc acaacggcac caagcgatgg ccaagcaacc gggttgaatt ttgcatgagc 420
 acagtg 426

<210> 18295

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-G3

<400> 18295

caacgacctc cagccgggg cgtgtgcatg tggcggtagc acccagtaca cggatgaacaa 60
 ccagattgtc aacgccaccc tgaggcacgt gtccgacaac cccatcaacg tgcagctctc 120
 ggtgatgtac aacaaggagg tcaacccccg cgtgcccac atcgtcacca gggactactt 180
 ctccacgctg tacgcaccgc tcatccacga cagcctgatg gagaagttct actggg 236

<210> 18296

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-G4

<400> 18296

gggtctccat tatgaagcag gggggagtag acctgtccgt ccttctgctg cccaacatat 60

tatgcgagaa c 71

<210> 18297

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-026-Q1-E1-G5

<400> 18297

gacgcgtggg cggagcttag ccttggtgga gaagttaaca tgtgacatgg agactttcac 60

gaagcattgt tctgttcagg ttcaagcaga gttcgagctc ccacgtgcat caatgtgcga 120

gttctcgcag atatggtctg gtcaaacactg ccatccggat cttggctaga cgcgtcctgc 180

ttgctagggg ctcagagagt gctgggaccc tatagccaat aagtagtcct taggattcag 240

tcggaagggg ttggagggcg tttgnncagc gccttgggtg tcttgaaca tcaggagggg 300

agggcagatg agtagtttca caggaggtga accccttacg aagataatct cactgaaagt 360

tctggatttg tcgttca 377

<210> 18298

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-G6

<400> 18298

taactgaaag acaagcttcc ccgcttttca agagtagagt gaaatcacgt atgctcgcag 60

aacaattttt cccaccaaca tctcgatttc tcttaaacct tttttttcac ttccctatcg 120

atatcatggg atttactgt aatctctggg tatcatgtat gtaacagcta caactttata 180

tcatacttgg cttaccggaa tggtt 204

<210> 18299

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-G7

<400> 18299

aaacaaaaaa aaaaaaaaca aaaacaaaaa aaaaaaaaac aaacaaaaca aaaaaaaaaa 60

acaaaaaaaa aaaaacaaaa aaagggcagc ccc 93

<210> 18300

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-G9

<400> 18300

aaccggatct gagccagcag ctgagaagag gatgagcgcc gtggccgccca tggcgacgtc 60

gtcgttgaac cccaacgcgc cgctcttcat cccggcgggcg taccggcagg tggaggaatt 120

ctcgcccgag tggatgagc tcgtcaacac caccgcctgg ttccgggacc actggttccg 180

ccagcaccag caccacgagg ccgccttcgc cgccgccgcc gacgccgagc tcgacgtcgc 240

cgcgtctctc cccgacgact ccgtcgacct cctcgacacc gacgacctca tctacgcgcc 300

tgacgtccac caccctcaac aacgccaaagc cggcgctgct gcccggggta ctacctctga 360

catgctcaac gtgcgctgag cctcaggctc cccccggggc c 401

<210> 18301

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H1

<400> 18301

caccggcgtc cggcggtggg agcaggatgg tggcgttggc tgagccggcg gatcgggggtg 60

gctgcggcag ctgccagggt catcgcccg cgggcgttgg gatccgcctc atcctcgccc 120

aaggccttcg tgaagtccac cgtctccgcc cagcagctcg tcattcttcgc ggggtcatac 180

tgcccgctact gcaaaagagc aaaggccgtg tttaatgggc ttgagttgaa gaaagagcca 240

tatgttgtgg gggccgatg agggagagga tggctcgcg attcaggatg ccttacctga 300
gat 303

<210> 18302

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H11

<400> 18302

agcccaaggcg tccgatgcgc aactcgctgg agaactactc ctacaacatg cgcaacacga 60
tcaaggacga gaagattgcg tccaagctgc cggccgatga caagaagaag atcgaggacg 120
ccatcgacgc ggccatcagc tggctggacg ccaaccagct cgccgaggcg gacgagttcg 180
aggacaagat gaaggagctg gagagcctct gcaaccccat catcgccaag atgtaccagg 240
gcgcgggtga agacatgggc ggcgctggcg gcatggacga ggacgcccct gccggcagcg 300
gcggccctgg cccaagatc gaggaggtgg actaagcggc ttgttgtcag tcttgagtgt 360
gctgcagttg ctggctggcc cagttgctgc cgagagttat cgtcagttgg tgcggtgtgt 420
c 421

<210> 18303

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H12

<400> 18303

cgagtgagtg aacaccagcc gtattgtccc gaccccgacc gatcctcgcc tgctgcagcc 60
atggcgacct ccgcggcgct ctccaccgcc gccaatccca ccagctcta ccggtcccg 120
gctttgctgg gcaagccggt gaaggggctt ggctgagca tgggcccga gcgcgccag 180
cggagcattg tgtgccagc ggagagcagc atctccgccg accgcgtccc cgacatggag 240
aagcggaagc tgatgaacct cctcctcctc ggcgccatct cgttgccac cgtcggcatg 300
gtcgtcccct acgggcctt ctctgtcctt gccggctccg ggaacgccg cgcggggacc 360
tacgcgaagg acaagctggg caacgacatc accggttgac gcgtggctca acaagcacgg 420

tcccaacgaa cgcaag

436

<210> 18304

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H2

<400> 18304

ttgtgtgagg taggtgtaca aactggcgag cgctctttcc ctcgctctat acctctctgt 60

ctgcgacgcg gttgggtagg ctaccgccgc ggggtgccga ctgccgatgc cctcaacggc 120

ggcgaaaacc gcccgccagc aatggcagca aggtgtatta gcctttccgg ggcgtccttg 180

ttcgtccatg gacccc 196

<210> 18305

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H3

<400> 18305

tgaagctgtg tatggggggt aaaggggcgg agacgcagtg aagcactagg aatttctcgt 60

cagttgtgca acctcgccgc ggagtcaggg gttgtcaggg gatgtctgca tcggcgataa 120

tagacactga gaacgacgaa gaagtaatgg ttgaagaaga aggagtgtgg cgaccaacac 180

ctgaagacc acctgcgagg aactactttt atttggaact gtggacagag ccgactccct 240

atgggagagc gaggtggcgg agcaatttgg agagcaagtg gtacatgggg atctcaagtc 300

taagtatcga ggttaccaat cacgtgaaga gcgagcgggt acctggggat ccca 354

<210> 18306

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H4

<400> 18306

cgctggcaga caacacctca gcgatatgca gagccgcatg ccctgcccac ctcacaatgc 60

catcccagcc tgctcccgga gatccggggg gtcctggaaa caagtcctat ccccgcgcgc 120

tacaccgccc gttcgcgctc acctaatac gacattcttt ct 162

<210> 18307

<211> 337

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-026-Q1-E1-H5

<400> 18307

ccgagctcat cggcgagatg gccaaagggg ccgagctgcg ggcgacgctc gtcaacttcc 60

tcaacgtcgt cgtcgacgag ttgggcgcgt cgagggtgcc ggagatcgtc gtcgagttcg 120

agaacgtgta caactcgctc acgggcaccg aggtcgccac cgtcacctcc gtcggggagc 180

tcgagtcgca ggacctcgcg cagatcgcg cgcacgtcca ggagatgacc ggcgccaaga 240

acgtccgcct caagagggag ggcgacgang cggtcagcgg cggcgctacc gtgcagtacg 300

gccgcgaccg ctcgaaacttc agcgacatga gcgctccg 337

<210> 18308

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H6

<400> 18308

tcgccgccgg ccacccact gcggtgctcg tccgcgcacg cagcaacacc acgctagagc 60

ttctcgagac cagcaagggc agcgcgggga ccgttgattg gaagtgacat ctacgaccac 120

cagagcttgg tggcggcgtt ccaccaggtt gacgtggcca tctccggggg gggccatcac 180

ggaccgcatg acctaaaaga cggacagctc acgagtgtgg cagccatcaa cga 233

<210> 18309

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H7

<400> 18309

cgtcgagtc attgccatag ctgggtgttg taggtgctct tacattcggg ctaagattga 60
agaggagaaa aggaaaaaga ggcgatgact gctgtggaga agattatcga gaccttcctc 120
ggacacaaca tcgtgcacaa tcacgacctt cttctatatc ttgttttgtt ttcattcttg 180
ggcaatccgt ccattgtttg ttcccagtct ggtgattaaa agtccgcaga ttctgtttgt 240
ggaa 244

<210> 18310

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H8

<400> 18310

aggacggctg cgctcagtca ctttgacagg ttcacgtca tgctggcaat gatcaaaagg 60
ggggctgcta tcaggcaaga actcgccacg ctgaagaatg cgtccacagg gtaaattcct 120
tctggtggat ggcattgta 139

<210> 18311

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H9

<400> 18311

agctgattcc ttgcgatatc cccaaagcaa gctcgagtga agaaactcac gaaatctgaa 60
gccagctgag agaggcggat ggggcagtgc ccgtgtttcg ggtccgcaa ggcggcggaa 120
caggagcggc gggcggaggg ggaccggcgc ggtcgcagg atgctcgcgc caaggccgcc 180
gaggccgcgc agaggagaca gcaggactat gagaaatcgg cagctggaag ggcagccaaa 240
gcacaaatga aagcaatgaa ggaatcaaag gcatcaaacc aatgtggaga gccggttctt 300
aagtggcaga tgggatcatg agtttcgttt ctgttgattt gcatccctcc gcttgtgaac 360
ttttgaatgg gccgaagaaa a 381

<210> 18312

<211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-A1

 <400> 18312

 aggcaaccgt tcagcgccct tcttggggat gctcctagtg ttgacgtcaa gaagaatgtg 60
 attgtggcca ttacctctga taagggactc tgtggtggta ttaattcaac atcagtgaac 120
 gttagcaggg cccttcacaa attgacatct ggtccagaaa aagaaaccaa gtatgttata 180
 ttaggagaaa agggcaaagt tcagctgttg cgtgactcaa aggacagcat tgaaatgact 240
 gcaactgaac tgcagaagaa ccctatcaac tacacacagg ttgccgtgct cgccgatgac 300
 atattgaaaa atgtggaata tgatgctctg aggggtattt tcaacaagtt ccaatctgtc 360
 atatcgttta agcccacaat gggaacaat 389

<210> 18313
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-A11

 <400> 18313

 gcgacatgtc ggccacatgg cggaagctcg acgaggaggt cgcgccacg ccgatgcctg 60
 acatctacca gaagcacatg gtgtggatcc tgtgcaacga ctgcagcgcg acctcgagcg 120
 tgcggttcca cgtgctgggg cacaagtgcc ccgctgagc ctcgtacaac acccgggaga 180
 cgagggctgt gtgccccagg atctgagggc aaccagaggc tatgtcaaaa tgccagggag 240
 atgccgtcca acgactggtg gagatcatct gtccgcagga cgttctgtcg cttaagggtta 300
 aaggctagcg cgagaccaag cctgggtgtc cagtcttgac tctggtgctg tccagggc 357

<210> 18314
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-A12

 <400> 18314

gaattcacgg ctgcagcagc cgtcagatga ctatgttaat atctatctta aaagcgatat 60
 gaaaagcatt cagacgagga atgtgctgtc gacaatgctc tccacatggc ccatcacggt 120
 tcatgattcc gggccaggtt agcttaccag tcaccatcgg tggcacattc agggagtcaa 180
 tcaaggagta tgtcggcaac accttcgggt acaccatcaa gtggatccag atctgtgtaa 240
 ctggccctgg catattcttc ataaaactca tgggtccacga caagaacatc tccgtggaga 300
 tatcgtcggc tacatcgtcc acgtacacga ccatctagga cctcgtccaa gaggtcaaag 360
 ctgcagagaa ggt 373

<210> 18315

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-A2

<400> 18315

cccacgcgtc cggtcgtctt cgtcttcctc gggatccacg tctacatctc cgcgtgtggt 60
 cacctcgcca gcgtcatctc cgtgctcgag ccgctctgcg gactcgccgc catggccaag 120
 agcaaggatc tgctccaggg ccgcaccggc accgcagcca cgcttgctgt ctctacttc 180
 gcggtctgcg gcgtcacctc cgtgctgttc cgtgccgccc tcgttaaggg gcgcgccgag 240
 gaggggagct tcggtctggc cttgcccggg cggctgcttg tcggcgccgt gctgctgtgc 300
 gttcttgtct gtgtcaattt gctgggactg ctcgtgcaga gcgtcttcta ctacgcctgc 360
 aaggccttcc acaaccagca gattgacccg gctggcgctt 400

<210> 18316

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-A5

<400> 18316

acagtcacatg caccctggac ggctcgaagc tcgtggcttc aggtggctgc gccgagtcgc 60
 gcgtcctcct cagcgacacc ttcctcctcg acctaccaa ggagaagcct gcgtggaggg 120
 agatccctac gtcctggctg ccccgctccc gcctcggcca caccacgtcc gtctacggcg 180

cgaccaagct gttcatgttc ggtgggctgg cgaagagcgg ctgcgtccgg ctgcgctcca 240
gcgacgccta cacggtggac gtcagcgagg acagcccgca gtggaggcag ttggccacga 300
cgaccggggt cccgaacatc agtccgcgcg cgaggctcga ccacgtcgcg gtgagcctgc 360
cctgtggacg gatcatcata ttccgggggt ccaacggcgg gggctcaaat cccccggggc 420
agctgttccc gga 433

<210> 18317

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-A6

<400> 18317

ggagctcgcc tccaacctct ccacctacaa agagcagcta cgcgaggcca agaagcttat 60
caaggagaag aaggatgatg ctggaatttc tgaatatatt gatatggaga aagagcttca 120
agatgtcata acgttaaccg aagagatttt ggcaactgca aagcaaactg agagtgccca 180
gaatgttgca ggtctatcac cgccaagcta ttcagctgga gtgcagtctg agggactgga 240
tgacctttca cattcccata agtttgccgt tggactactaga gttcaagctg tgtggagtga 300
agatggagaa tgggtataatg caaccgttga agctttgaca ccaaatggat actatgtagc 360
ctacgatggg tggggaaaca gt 382

<210> 18318

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-A8

<400> 18318

gccctgctca ccgccatcga ccgcgaggcg gtgtacgggt actacgacga cccctgcagc 60
gccaaactcg cctgatgaa gaagatccgg gccgtgctgg tggaccacgc cctcgccagc 120
ggcgaggccg agaaggacgc cagcgcgtcc gtgtttctca agatcaacag gttcgaggag 180
gagctgcgcg aggcgctgcc cagggagatg gaggcgcgcc gcgtggcctt cgagaccggc 240
gccgcgccga tcgccaacag gatcaaggag agccggtcgt acccgctgta ccgcttcac 300

cgccaggacc tcggcgccgt gtacctgacc ggcgagaagc tcaagtcccc cggcgaggag 360
tgc 363

<210> 18319
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B1

<400> 18319

aaccaaact tcgccaagc cttcgccac gcgctcgccc acgcgtccga attcagatac 60
tagcgttgcg ttgggttgcg tcgattatat gtttcttctc gggacgcgtg tcgcgtgctc 120
ggctcggcag tcgggctccg atttctggac ggacccgacg gaggcgatcc ggcgcgcgta 180
ccaccgcacg gaccggaagc tgctgaagaa gacggcgggc gacgacagcg gcgaggggat 240
gaagaagggc aggcggcccc gcgggt 266

<210> 18320
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B12

<400> 18320

agcttgact agagaaaaag taacagaatc atctctggct tttacgcac ctagtaccac 60
gcaacagatg cttatgtgga aatcacctcc aaagactgtc ttacttttga agaaattagg 120
agatgagctc atggaagaag ctaaagaggt tgcttcattt ctgcatcac aagaaaagat 180
gaatgttctt gtggaacctg atgttcatga tacatttgct agaattccag gttatggttt 240
tgtgcaaacc ttctatactc aagataccag tgaccttcat gagegaattg attttgttac 300
atgcttgggt ggtgatggac tcattttgca tgcacaaac ttatttagaa cttctgtacc 360
acctgttgct tccttcaatc tcggatctc 389

<210> 18321
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B2

<400> 18321

acccacgcgt ccgagaaaag aaaaggaacc tgtcttgatg tcgtcgctgt cgctgtctcc 60
gacggcgggg aggacgtccg ggtcggacgg cgactcggcg gcggacacgc acaggcgcca 120
gaaacgccgg ctgtcgaacc gcgagtcggc gggcggtcc cggtccgga agcagcagca 180
cctggacgag ctggtgcagg aggtggcgcg cctgcaggcc gacaacgcgc gcgtggcggc 240
ccgcgccgcc gacatcgctg ccagtacac ccgcgtcgag caggagaaca ccgtgctccg 300
ggcccgcgcc gccgagctcg gcgaccgct ccgtccgctc aacgaggtgc tccgcctcgt 360
cgaagag 367

<210> 18322

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B4

<400> 18322

acagcgcgcg actgacatgt cgatgctcac cagcactactg ggccgcaagc atcagcagcc 60
gccgccgcgc ccgcagcagc agcagcagca gcagaagggc ggcggcgcg gcactggcac 120
cggcgccggc gccggcacgg aggcggcggc agtggagccg gtgagcatcg acatcgcgga 180
gcaggggcgc ctagtggacg ccatcacgct ggcggcgctt gcggcgccgg cgctaggcct 240
gccgccgttc gcgacggcca gcatggactg gaaggagacg ccgacggcgc acgtgttcat 300
ggccgacctc cccgggctgc gccgcgacg 329

<210> 18323

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B5

<400> 18323

ctttgtgtat acaggaaaca aaagggctca cttgctgtct ttgctgggac agcttttgg 60
aactgtgcgt gtggccatgt accagggagt attggaagtt agaaagatac aatctgcagg 120

aaaaaaatgc tagtgtatTT cttcattctg ccccatatTT actcaactgt tgaaaggtgt 180
 aagctgattt gaatatcgta tcagcattag ttaagaggTT gattgatatc atattcttgt 240
 aatgatagaa tattctattg g 261

<210> 18324
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B6

<400> 18324

ctccctcgcca tcacataaaa ccagtgcagg cagaagcagc gcaatggcga gcagcaccat 60
 ggccctctcc tccacagcct tcgccggcaa ggcagtgaac gtgccgtcgt ctctcttcgg 120
 cgaggcccg cgtgacgatgc gcaagacggc ggcgaaggca aagccggcgg cgagctccgg 180
 cagcccggtg tacggccccg accgcgtgct ctacctgggc ccgctgtccg gcgcgcccc 240
 gagctacctg acggggcgagt tcccgggcga ctacggctgg gataccgcgg ggctgtcggc 300
 ggaccgggag acgttcgcca agaaccggga gctggaggtc atccactccc gctggggccat 360
 gctgggcgc 369

<210> 18325
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B7

<400> 18325

acggacgcgt gggcggtgag catcgccccg cgctggcaag ggtgcaccct gtcccagaac 60
 gcgtgctggt cgcggttgct gcacaccgtg gcgttgggca ggcagtccgc ctccggcgccg 120
 aacctccgc ccccgagca cgcgtcggcg acgtccgtgt accccgacgc ccccggtcgg 180
 tcgaagggtg ccatcgacag gccgtagtag tcggcgagcg agtaggtgaa gcccggcagg 240
 cgggaggcga ggctggcgag caggaccgcg agggcgctcgt ccaggccccga cgcgagctcg 300
 ttcaggccgt ccaagcacgc gccgtcttc gtcccgccgg acagccgcgc cacggggacg 360
 cagccgagca gcccacggt gatgat 386

<210> 18326
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B8

<400> 18326

agatccaggc cagaatcgcg cagctgaaga gagagctttc tcagacggac tcgacgtatg 60
actctgagaa gttggcagag agaattgcaa agctttctgg tggagttgct gtggttaagg 120
ttggagcatc gaccgaggca gagctagagg accgcaagct ccgcatagag gacgcgaaga 180
atgcgacttt tgcagcaata gaggaaggta ttgttccagg aggcggtgca gcatatgttc 240
atctatcgac attcgtaccg gctatcaagg agacgttggg tgatcctgag gagcgcttag 300
gtgctgatat cattcagaag gctttggtgg cacctgcagc gctgatagcc cagaaggctg 360
cggtgga 367

<210> 18327
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B9

<400> 18327

tggcggcgga gggatggagg agggcaattt gtaaccttat gctgtttggt cgctttttaga 60
cggcgtggtg aagaactagt gtaaaaacgg ctttaaagtc tattttgtgc ggtagttcgt 120
gtaggccgct tcgtcccgaa gcgatcttgg taaaagactt attcgtgttg ccaaaaaaaaa 180
agaacagaca caaaaagaa 199

<210> 18328
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-C1

<400> 18328

aacgacgcta cccaactcct cagccggatc catcctcatg aacgcttctg cgctggcgctc 60

acacgtccca catatagcaa ggggtcccaa accttgcatt acccccgtag ccaaacaatcc 120
 ccgtcccat ggaccttggg ataaggccta aacggagatc tcccgcgacg tccacccac 180
 cgttaatatc tctcaaggat agcactcact cccgcaggtt taaaaatggg gaattttcaa 240
 gcccatcata attaaaagggt tctaagataa aagcttcttt ctcatcaccc t 291

<210> 18329
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-C10

<400> 18329

agcggacacg tgggagccct gcccgccgaa gagcgcgcaa gcccacatctc gccctgcccg 60
 ccgaagagcg cgcaagcacc accgtcccgg cagcgcggag atcgggtccac tccatccacg 120
 ccgcgtcagg cgagcggggc gcacggacgc tgcgaccgat ggatctcaag gatagcctct 180
 ccaaatttaa gcaacagcag gagagatgcc agtcatcact ggcgagcata gctgcttcga 240
 cctcaaagcc aaagcacagg gcccaaccag cgcagtctcc taacgtccca gcaagaccat 300
 cacaacctat taagttttca aatgatacag aaaggctgca gcacatcaat tcgattagga 360
 aatctcctgt tggagcacag atcaagcttg tca 393

<210> 18330
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-C11

<400> 18330

actccagctc ttccacaggg aagattagtg aacaatctaa tacactggca tcatttgata 60
 gctccacaag tagcaggga tcaacagta ttgacatgca agtcactgac aaaagtaaaa 120
 actcagcaga gaagcagagc tagacatgta atccagacag ccaaaatctg agatctgagg 180
 gtacatatct gatgaaatca ttttaagc 208

<210> 18331
 <211> 365
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB84-027-Q1-E1-C12
 <400> 18331

agcggacacg tgggcggaac cgtgggtatc cccctccgct ccccgccggg cctgcatggt 60
 gttcgacgct tcgcccgaac gcccgaaacg cggcacggca tggcttcctc catctccgcc 120
 gccgctaagg cctccgcggc ctttgcccaa aataaggagc tggccgcgcc ggcgccgcac 180
 cgcgcggggt cgagccgtcg gaccaagccg tgccgcgtgc gcgccgtcac gtcgcccgcg 240
 cgcaactctc gcgtccgtc gtcgaccggc tcggtgaaga ccgcgatgac tatgacggag 300
 aacatcctgg ccagggcgtc cgagcgcacg gagctgggac ccggggagaa cgtgtgggtg 360
 gacat 365

<210> 18332
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-C2

<400> 18332

acagctcccc ccgcaaaaac cctagcttta cctccccaca agcgcctcca agatgaagct 60
 cgtcaggttc ttgatgaagc tgaacaacga aacggtgacc atcgagctta agaacggcac 120
 cgtcgtacac ggaaccatta ccggtgttga catcagcatg aatactcatc tgaagactgt 180
 gaagctgaca ctaaaaggga aaaatcctgt tacccttgat caccttagtg tgaggggaaa 240
 caacatccgc tattatatcc ttcctgacag cctaaacctg gagactttgc tggttgagga 300
 aacaccaagg gtcaagccta agaagcctac ttctgggaag cccttggggc gtgggcgtgg 360
 ccgtgggtcct gggcgccgtc ggggt 385

<210> 18333
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-C3

<400> 18333

acccacgcgt ccgcggacgc gtgggtccca aagatagtaa gttctttttt ctttcttatg 60
 gaaaaaggtc tttttccagg attctataga aatttcatat atgaaagaaa cgaaaccgag 120
 atagttacct ttcagaaaat tcgaacgaag gatataggtc tatctatgct tcattcttct 180
 gaagggtgga gaaaagatca aactgattat tgatcaaaat tagggtttga aacttaggta 240
 attaacttct tctgcttaac ccaagaagaa attggattga tttttgagaa atcgaattca 300
 gttaagatag gggaaattaa gatagcaatt tctgagccgt atgaggttaag aaactctcaa 360
 gtacggttct aaggaa 376

<210> 18334
 <211> 346
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-027-Q1-E1-C4
 <400> 18334

acccaagcgt ccgcaatttg ctgtctgaac tgtagcagct ctgttcatgt ggatcactgg 60
 tattattaac aggccaaaga tttctggagc acagcttgta gccatcctac ctctggctat 120
 tgttcatact atgggcaatc tcttcaccaa gatgagcctt gggaaagttg cagtgtcatt 180
 tacgcacacc atcaaggcta tggagccttt cttttctgtt attctttctg caattttcct 240
 tggcgagcta cctactatth gggtagtalc ttctcttctt ccaattgttg gtggtgttgc 300
 attggcatct cttactgacg catcctttat ctgggcccgc ttttgg 346

<210> 18335
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-027-Q1-E1-C6
 <400> 18335

cgtcggcttc tccgtcagcg tcttcgtcgc gccgtcagc atcatgaggc gggatgatcca 60
 gaccaagagc gtggagtaca tgcccttctc cctctccctc tcgctcacc tcagegccgt 120
 cgtctggttc ctctacggcc tctcatcaa ggacaaatac gtcgcgcttc caaacatcct 180
 tggcttcacc ttcggcgtgg tccagatggt gctgtacgtg gtgtacatga acaagacgcc 240

gctgccggtt gccgacggca aggctgccgg caagcttccc tcagctgcag atgagcacgt 300
 cgtcgtcaac gtcaccaagc tcagcccggg ccgactccca ccagtaacac agatggcggc 360
 ggttcccacc aagagctgcg ctacagaagc agccgc 396

<210> 18336
 <211> 364
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-027-Q1-E1-C7
 <400> 18336

gcaaccagat aagtgtactt ttgtcgtgaa tgtcataaat tatgcaaatt cacttggcga 60
 aagagtgtca tactacaatt tcacaagaac aaccctaaa actcaacaca taataacaac 120
 tacagagcat ttcgctttga gtaacaagg aaaattctcg tgggtggatat gatatatcca 180
 gtttactcaa tgattttggt gatgacacca gcaccaacag tcttaccacc ctcacggata 240
 gcaaacctca taccctgctc acaagcaaca ggctggatga gctgaacaac catcttgata 300
 cggtcaccag gcatgcacat cttegcctcc tcaactttgg cagtcataat cacagtcaca 360
 gtcc 364

<210> 18337
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-027-Q1-E1-C8
 <400> 18337

agaaggctca cttctggagg cccttcattc ggttggatat tccggggcac tggcaaaacc 60
 tttgatggct tcagaatctg ctgtaaaccg gttggatggt agcagcttgg aggaatttgt 120
 tgctgaacat tacactgctc ccaggatggt tcttgcagca tcaggagtgt atcatgatgc 180
 gctgatttca gttgtagaac cacttctgtc tgaccttccg tgcgtgaaac gtcctgaaga 240
 gccaaaatct gtgtacgtgg gaggagacta togtcgccaa gcagattctc caaacacaca 300
 catcgcaatt gcttttgagg tgccagggtg ttggaatcaa gagaaaactg caatggttgt 360
 gacagtgcct cagatgctca tggg 384

<210> 18338
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-C9

 <400> 18338

 aattcaaggc tcgacgacgc gtacgagcgg aacggcatcc agagcccgtc ctaccgggtgc 60
 ctggccgcag gcatcatcaa ctggcaagcg gacgtcgaga ggtgcataga gtgggaagcc 120
 cacagccgcc gcgccactgg gctgacgctc gccttcctca gtgccgcagc gaaggagctc 180
 ggctgccctc tcccgatcatg acaaggccat tcttggatct gacatcggtc tccaattgac 240
 ggtcagtgtc ggcacagctg ctgcagggtc cgcgagtagg acggctccaa tctctccatc 300
 acgttgtatt atctggtgtt tccataatgc cga tcaatttg 348

<210> 18339
 <211> 401
 <212> DNA

 <223>

 <400> 18339

 atagatga agacagtgt 60
 gagtgtcgac tgctgcatga ggcgtctagtga gaattgtactg cgaaatttct agcacaagaa 120
 cacagcaatt ttactagtgt tcttcgtcc ttgcctgatg cattagatct tctagcaaca 240
 caaagctctt ctgacgagcg cgacaattct gatagtagat cgtcattgac tatgaactgg 360
 gaagatgcaa aagttacaga tgaagatgca acgaaaatac c 401

<210> 18340
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-D10

<400> 18340

agcggacacg tgggcgcgct acaagtcagg gcagtcaagt acttataaga agaacggaaa 60
acctgctgcc attcaatatg gaaccggtgc aattgctggt tttttcagtg aggatagcgt 120
taaattaggt gatctggatg tgaatgatta ggaatttatt gaagctacaa aggagccagg 180
ccttaccttc atgggttgcaa aatttgatgg cattcttggg ctaggctttc aggaaatatt 240
tggtgggaat gcaacacctg tgtggtataa catggtaaaa caaggtctca tcagtgaccc 300
tgttttctct ttctggttta accgacatgc tggatgaagga gaaggtggtg aaattgtgtt 360
tggtggaatg gattctagtc actac 385

<210> 18341

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D11

<400> 18341

gcgtcagacc agatgctttt gtgccaaatc cagcaaatgc atctttcaat gctacagctc 60
aatcctcctc atgtgcagtt cccaggcttg taccatcctc agcaacctcc ctctattgta 120
agtccgcacc ccatggtgca tcaacagggtg ccatcgcca ttggtcccaa tggtgggggtt 180
ggggtggcag ctccaggccc gcaagttgga gcttatcagc aaccacagct tggccatatg 240
aattggagac ccagcttttg aagaaggttt cttaattatc tgtaattagg gggggtcaca 300
agagccttta tgtaacaaca gtaggctcct tttaacagga agcaccttg tttttagtgc 360
agctctttct gatctattta agctataa 388

<210> 18342

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D12

<400> 18342

acgcccacga cgcccgccca cgcgtccggg aaggatcatg acctcatctg cagctcgtc 60
ttctcggtgg tggtgctgtt caccacgacg cggatgctgc gcagcatcct cgaagtgttg 120

atggagagca cgccccgcga gatcgacgcc accaggctgg agagcgggct ctgcgggatg 180
gagggcgctgg tggccgtcca cgagctgcac atctgggcca tcacggtggg caaggtgctg 240
ctggcgctgcc atgtgaccat cccaaggat gcggaacgtg atgagatcct tgacaagggtg 300
atcgggtaca tcaagacgga gtacaacatc agccatgtga ccatccaggt cgagcgcgag 360
tagggagctc tgtctttggc tgctgtcttg ggcaa 395

<210> 18343

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D3

<400> 18343

actgctgaca acaccagcca taccagaaga caggatgaag gagatcacca aggcttcaga 60
aggcttcgtc tacctggtga gcgtgaacgg agtgacaggt cctcgcgcaa acgtgaaccc 120
acgagtggag tcactcatcc aggagggttaa gaaggtgact aacaagcccc ttgctgttgg 180
cttcggcata tccaagcccc agcacgtgaa gcagattgcg cagtggggcg ctgacggggg 240
gatcatcggc agcgccatgg tgaggcagct gggcgaagcg gcttctccca agcaaggcct 300
gaggaggctg gaggagtatg ccaggggcat gaagaacgag ctgccatgag tccaagacaa 360
agttaaactg tcagagaaac cttgagtact atccaaccaa caacctcggg ggaagacgac 420
gaccgaccga 430

<210> 18344

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D4

<400> 18344

gctcgtctgt cgcccgctct cctccgcctt ccgcatggc ggcttcccc tccgctccc 60
cgtcgccggc gatctccgcc tcgacctgga gcatggcttc cctccgtacg tccctccccg 120
cactccgccc ctcccccgcg ggaaggctcc gtctgtcgtt ctcccccgcg gcggcggcca 180
cggctgcata ggtcggctgc ctccggctct tctccggcct cgcgcccgtc tcgaatctcc 240

tctccctcgg cgctgagaac tcaagctttg agcatcgggt gtttgggtatt gatgcccgtg 300
gaaggatagt tgcgatgca catgggagac gcgttcctaa accttaacag gcctccggat 360
caaaggaaag cccctgttcc ttgg 384

<210> 18345
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D5

<400> 18345

agacttgta cacttaattg acttgattgt gcaggacat tgtgtttact gaagcagctt 60
agttcatgtt cctgtcatgg gtatggaaca tttcatcagt tctgcaaacc tttcagcagg 120
tttcacatcg tatggaaatg aagcagcaga ggaaatgaaa aaactacgag gtctaagatt 180
ggaaacactg atggaaacct gccaaaacac agaaagcaga gatgtagcga tcaggtgtcc 240
aataccatgc aaaagcagca ggcggtatag ggaacatgac ttgagagctg cacaagatct 300
ttctgaattc attgcttcac ctccatactt tatgggatct ccaccacttc gtgcaaccaa 360
tctctttgct catgatgcac aattct 386

<210> 18346
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D6

<400> 18346

aggaggaagc ctctttttgt gaagaacggt gcaattgttg tttgccgcat tcaggtgaat 60
aacttgatat gcatagagaa gttctctgat ttccctcagc ttggaagggt tacacttaga 120
actgaaggaa agacggtagc tgtaggcaaa gttgttgata ttccgcctgc tggtagccca 180
acattctgag cttaagtcaa ttttgaacag gatggataat catgaagcag tgcgttcgct 240
taagatactt ttttttggga agtgagatta gttgttgagg ttagattttt tttcagtcca 300
tcttgagaat ggtctatgcc tttatgggtt aggctagcaa gtcttagatt gggtgcataa 360
aattacatct ctggttacat g 381

<210> 18347
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D7

<400> 18347

gaccaacatt acaaatgctg tttattttta ttttacacaa aattccacaa cataacaaat 60
atatcaacag ttatatagca caacatattt tcacataaaa catctcacac acaatcacat 120
aacaatattt aaatttagag tctcatcaat tacatcacaa aagtctcatc catagtcaat 180
gaagggatat attagctcca agcaaattgt gttaccataa aattccatgt agagcaaaca 240
tcattagcat aggatgtttt aaacctcgat agatggcata gtcacggaga tgtggagatc 300
tttgccatca tttatagctt ccaacatggt gatgcactgg ga 342

<210> 18348
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D8

<400> 18348

agcggacgcg tgggctatta gcgtctatag acttcgcagg gctatgtata gtagatatgt 60
agattgagac cctgctgagc atgtacgtgc agtatgttcc tagtcacttg tgtatcatta 120
ctagtaatgc agtatccctc gtg 143

<210> 18349
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D9

<400> 18349

agcatagcac ttgttccagc tagctatgag agagagcttt gtttaggcgg cggcaagatg 60
aacaggaagc caggagactg ggactgcagg gcgtgccagc acctcaactt cagccgtcgg 120
gatgcatgcc agcgtctcag tgaaccacgt ggagttgggtg atcgtagcgg cgggtggtggc 180

gacttgggtg ggcgtggtgg ttctctcttc ggcggtggct ttggtgctgg ctctgatgtc 240
cgccctgggtg actggtactg ctctcgcggc gcacacaact tcgccagccg ctccaactgc 300
ttcaagtgct ctgcctacaa ggaagacgct gccggcgccct ttgatagtga catgttacgc 360
tcacgcggct aagccggc 378

<210> 18350

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E10

<400> 18350

cgacgacgcy tacgcagcga ctacgcgagc gagagcagca cacacgcagc tagctaggag 60
cagcagcaga gcagcggcga tggcggcctc catgatctcc tcgtcagctc tggcggtggc 120
gcctcagggc ctgccgcccc tcggccgccg cgcctcctcc ttgcgcgtcg tctgctccaa 180
gaagaagatc aagaccgaca agccctacgg gattgggggt ggctgaccg tcgacgtcga 240
cgccaacggg agaaagggca agggcaaggg cgtgtaccag ttcgtcgaca agtacggcgc 300
gaacgtcgac ggatacagcc caatctacaa cgaggatgac tggctctcca ccggcgacgt 360
ctacgtcggc ggaaccactg ggcttctgat ctgggcccgc accct 405

<210> 18351

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E11

<400> 18351

cacgcgtcag gtgatcatca acagctagtg ctagtcccc ttcttccat ccatccatgg 60
catgcgtcaa caccttcccc agctgcccc ctgccaaaat aacagaggtc aataccaagt 120
ccacgggcag caccatata ctggcaaagg ggtcaccatc actagccttc catttccagt 180
gcatggcgtc caatttctcc gcgggcaaca gcctccggca cgagctggac gaaaacgccg 240
aggcgatcat ctcgggggcg tagcccgga actgctccct cctcagctac gacgacttcc 300
gtccctacct 310

<210> 18352
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E2

<400> 18352

cccacgcgtc cgagcgactc agcgagcgag agcagcacac actgcacgca gctagctagg 60
 agcagcagca gcggcggcga tggcggcctc catgatctcc tcgtcagctc tggcgggtggc 120
 gcctcagggc ctgccgcccc tcggccgccc cgctcctccc ttcgccgtcg tctgctccaa 180
 gaagaagatc aagaccgaca agccctacgg gattgggggt ggcctgaccg tcgacgtcga 240
 cgccaacggg agaaagggca agggcaaggc cgtgtaccag ttcgtcgaca agtacggcgc 300
 gaacgtcgac ggatacagcc caatctacaa cgaggatgac tgggtctcca ccggcgacgt 360
 ctacgtccgt ggaaccact 379

<210> 18353
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E6

<400> 18353

agacggcaac gtcttcgtcg cggctaccgc ggtggtggcg tgcacgggcg ccggcgcgct 60
 ggcgcgcggg agggaggtgc accggtgggt ggagcagagc gggatccaga tggacgagaa 120
 gctggccacc gcggtggtgg acatgtactg caagtgcggc tcgctcgagg aggcgtggcg 180
 tgtgttcgag gccctcccgc tcgctgcaa ggggtcacg acgtggaact gcatgat g 240
 cgggttcgcg gtgcacgggc gggggcagga cgctctgaag ctgttcggac g 300
 ggagggcggtg gcgccggacg acgtcacgct ggtgaacgtg ctactgctt gcgcgcacgc 360
 ggggatgctc agcg 374

<210> 18354
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E7

<400> 18354

agtgtccagc acaagagaga gaagaggagt ggaggaggtg ggagcagcaa gaatggcgtg 60
ctccaccaat ctctgcttct cggcggtgat tctctctctt ccagcctctt cttcttcttg 120
ctcctcccc ttcctcacga tgaagcgtgt gtcctctgtt ccgtcgttgt ccaagtggac 180
aatccgatac aagcaattgg gacatgcatt atatcagaga agccacgttc tggcctttgc 240
tagtgcagat gcatcacaag gcaaaagaag ctcaagtgag aatgttgtga tggttgatcc 300
actggaagct aagcgtctag ctgctaaaca aatgcaagaa attagggcca aagaaaagct 360
ga 362

<210> 18355

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E8

<400> 18355

agaccgcatt gccggcgggc cgctcggcga ggtcgtcgac ccgctgtacc ctggcggcag 60
cttcgacccc ctccggcctgg ccgacgaccc cgaggccttc gccgagctca aggtgaagga 120
gctcaagaac ggccgcctcg ccatgttttc catgttcggc ttcttcgtcc aggccatcgt 180
caccggcaag ggcccgtcg agaacctcgc tgaccacatc gctgaccag tcaacaacaa 240
cgcatgggcc tacgccacca acttcgtccc cggcaactaa gctcaacggc tatgctatgc 300
aacttcattg tctttcggat cggagagggt gtacgtacct ggattgattg atgctgcgag 360
atgcatgtgt gtccttttgg ttcaacttgc a 391

<210> 18356

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-F1

<400> 18356

acccacgcgt ccgtgtaaag gaatatattt tgaaggctgg ttgtaacgtg gacaagtctt 60

cattccattc actgatggaa gggatactga aaaaagctgg tgtggaaaaa tcaatcgagt 120
 ttgctgaaaa catagcatct acgggaattc tgctgaatga tttcttttta tgccattga 180
 ttagacacct ctgcaagcac aagaaagctc ttgaagcgca tcaactattc aataagttaa 240
 aaggtcttgg agtttcaacta aaaactgggtt cttataattc tcttatccgt ggccttgttg 300
 atgaaaacct gattgatata gctgaagact tgttcactga aatgaaaaga c 351

<210> 18357

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-F2

<400> 18357

acaggtgaag cttgctgttg tggatgaagg tatgggcagg accgggtcca ggggtcaggt 60
 gaccaggtc agagtgaagt tcttgatga ccagaaccgt ctcacatga ggaacgtcaa 120
 gggccctgtt cgtgaggttg acatcctcac cctgctcgag tctgagcggg aggccaggag 180
 gctgcgctga agccctgggt gccttgatg taattctgtt aattttgttc tatgtttgtc 240
 gaacttgccg tgtcccttgc aacatctgct ttgagattta ctgagcctgg attgcagttt 300
 tattttatgt tcctgctgga aagtacactt gccgaaacat agttatcatt ggttatctat 360
 aatagctcaa tcgacgctg caatctgaaa gctttgtt 398

<210> 18358

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-F3

<400> 18358

accatggcga cctccgcggc gctctcgacc gccgcgaagc ccaccagct ctgcgggtcc 60
 cgcgctgcgc tgggcaagcc agtgaagggg cttggcctgg ggatggggcg ggagcgcgca 120
 agccagcggg gcatcacgtg ccaggcggcg agcagcatcc ccgccgaccg cgtccccgac 180
 atggagaagc ggaagctgat gaacctctc ctctggggcg ccatatcgct gccaccgtc 240
 ggcaggtcgc tccctacgg cgccttcttc gtccccgcg gctccgggaa cggcgcggcg 300

gggacctacg ccaaggacaa gctgggcaac gacatcacgg tggacgagtt gctcaacacg 360
cacgggtccc aacgaccgca cg 382

<210> 18359

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-F6

<400> 18359

acgtcgagat gcttcgtggc tccgccgcc tcttcgccg cctcgccct cgtatctcgg 60
gcggtggctg cggaacaac aatcaacggg gcccttcttc ctccaatcgc ccccttcctc 120
ggcgcccgct tcttgtctgc cccgactact tcttcaccgc cttcttcgtc ttcagctgcc 180
tgccacgagg aggatgcgga ggacagagac ctccccgaga tctccaatgg tgatgcaggt 240
gcccggctca gcatctccgt cgaccgctcc gggctctaca accccacaga gcactcgcac 300
gagccgtcgt cggaatccga gctcgtcaag cacatcaaga gcatcataaa gtttcggagt 360
gggccaatca gcataactg 379

<210> 18360

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-F7

<400> 18360

gtctatctat ccttctatcc ccattcccat cccgagacag gagaaggcaa ggatgctgct 60
cctgagctcc ccttcgtgt cctgtcgcg gccgccgccg ccgctcagct cccatggcgc 120
tcgcccggcg ctgcggatcg aggcggccag gcagctgacg gggcgggtgg tgacgaccaa 180
ggcggacaag acggtcgggg tggaggtggt gcgcctggct ccacacccca agtacaagcg 240
ccgggagcgc atcaagaaga agtaccaggc gcacgacccc gacaaccagt tcaaggctcg 300
cgacgtcgtc gagctccaac cctcccgctc catctccaag accaagcact tctcgccat 360
cccgtccccg ccccgcgaca ctcg 384

<210> 18361

<211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-F8

 <400> 18361

 agcccacgcg tccgaataca aattcataaa gatgcatata tataatatag ctccgcctcc 60
 gatcctcctc tctgctgca aaggatgcc atttcagcag tgacgagcat cgtggatata 120
 tgcaattcct ctgcacatgg atggattggg atgtaacttg gaactgttaa ttttttttta 180
 ctttgatttg gatgcatcat gacccccct tcaaaccagc tagtgaaatg ccattttagg 240
 taaaagtoga cctcctagta tcatattgtc gttgtcttga tccgagtatc tcaccaacca 300
 gtgaaatgat gttgctgcc ttggcccaga tgagtgatgt aaggtcacac aagtcattta 360
 tcctagtttg ggcgagagaa agccctactt ccagc 395

<210> 18362
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-F9

 <400> 18362

 ttttattttt tcgaaaacat gcaagaaaac tgatgtctgt caatagatct aaagtacagt 60
 ttccagctac agaaatgcat aattgcagta ccatcaaac aattctaagc gactcaatat 120
 gtccaaaact ctatgggttt tcacctgaca gtgagctgaa cctgatcata tctccagacc 180
 agatttatto agcagatgaa ctgacctgac acgggcacat ccccccata gagcctgagg 240
 tccaagtoga tcttgccttg ttcagtctcg aacgctcgtc cgtgctccga gtgctgcgct 300
 ctcagcctga agctcccagg ccacgccgcc gaaccgggag cctcctcgca agcggcgacg 360
 gtcgtccccc aggcg 375

<210> 18363
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-G1

<400> 18363

accacgcgt ccgtgtatat taggccctta cttatgggaa gtggggctgt tcttggtctt 60

gcacctgctc ctgagtatac attcattata tttgtctctc ctggttgaaa ctactttaag 120

gaagggttag caccaataaa tttgatagtt gaagacaagt tccatcgtgc tactcctggg 180

ggtactgggg gtgtgaagac cataggaaat tatgcttcgg tgttgatggc acagaaaatt 240

gcaaaggaaa aggggttattc tgatgtcctc tacttggacg ctgttcacaa gaagtacctt 300

gaagaagttt cttcatgcaa tggttttgggt gtcaaggaca atgttatttc taccacagca 360

ctaaaatgaa caatattacc tggtatcaca aggaaa 396

<210> 18364

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G10

<400> 18364

acgtgttaaa cgtgttagtg gaatgatgga tgggtctcact acgtataata tttattagat 60

agcctgagtc gttgttatatt ttgtggaatt cgtggcgggg taataatagt actctgggtt 120

actactaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 240

ggggccccc aaaaggttca aaccttaatt acccgtaaaa gaaaaatcaa accccttcaa 300

aactgc 306

<210> 18365

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G11

<400> 18365

aggatcgatc tgcccttaac aatgcctgga aatcatggat ggaagaacac atagcggcca 60

cgggcaaggc gccaccaggg aacgttgag gaaaccacac ctgggttggt ggtgcccccc 120

agcggccccc agacctgcgt ctgacgcctg gacgccacgt ccagctgacg gttccgctgg 180

agcagctgat agaccggctg gtgaaggaga acaggggtggg ggccttcac aaaggatcaa 240
ggagcgctcc tcagtgcggg ttctcgcaga ggggtgggtggg taccctggaa gcgcacgccc 300
cggatttcgt gaccgtcgat gtgctcgacg aggagcacia ccacgggctg agagaaaccc 360
tcaaggetta cagcagctgg ccgacgttcc ctc 393

<210> 18366

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G12

<400> 18366

aaggagatc gacgtgaatc tcacatcac tgactactgc atgccaggca tgacaggata 60
cgatctgctc aagagagtga aggggtcctc ctgctcaag gacattcctg tggatgatcat 120
gtcgtctgag aatgtgcctg cccgatcag caggtgcttg caagacggcg cggaggagtt 180
cttcctgaag cccgtgaagc tggccgacat gaagaagctc aagtcgcacc tgctgaaacg 240
gaagcagccc aaggaggcgc aggcgcaggc gcagcaggga caggcggtgg agctggagcc 300
tgagcagcag ctggaccgc gcgcgcagcc ggggcacgac ggggaggaaa ccgcggcaga 360
gccgcgcc 369

<210> 18367

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G2

<400> 18367

gaagagagca gaagcgaaga gcagcggcgc aaaggaaagg gagccatgct cgctcgccc 60
gcgctcgccc gcgcccactc cttcgcgccg tccgtgtatg gaaacatcct cgtcccctcg 120
cctcccgctc ccgcgcgggc acgtcgcgcg gcgctgtccg tcgtcgccaa ggtcaagggtg 180
gccactcccc aggacgaccg catcgcccgc cagctccgcc tccgcaagaa ggtaagtggc 240
accactgaga ggccgagggt gagtggtttc cgctcaaaca aacatctgta cgctcaagtc 300
atcgacgaca caaagcaatg tactctggct tcagcttcaa ccatgcacia atctctctcc 360

aaggaatttg aatactc

377

<210> 18368

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G3

<400> 18368

acgccgagct cgacccggag aagaggctgt accccggcgg ctctacttc gaccgcctcg 60

gcctggcggc cgacctgag aagaaggagc ggctgcagct ggcggagatc aagcacgcgc 120

ggctcgccat ggtcgcttc ctgggcttcg ccgtgcaggc cgccgccacc ggcaaggggc 180

cgctcaacaa ctgggccacc cacctgagcg acccgctcca caccaccatc ttcgacacgt 240

tggagggtc ctcttaagcc cgccattgct ccgcccgcgc catcgaccgg ccggaacgtg 300

ttcttgatt aattaactac gatctctatg agcctgggga tggatcaacc cgtcgtgcgt 360

ggtctcgttt tgtgatgagt tgg 383

<210> 18369

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G4

<400> 18369

acccaagcgt ccgcccacgc gtccgcggac gcgtgggcgg acgcgtgggt gagggccccc 60

aatttgacga agcattegct gagaccggtg tgagctcgag tccaccagca agggaaacat 120

ctgaaattga agaagtcgga gactgggaca acgagttgta tgaaagggtt caaagtcac 180

tgggggcatc aacatcaagt gctttgttct ggaacactcc aggaaggac tatggtacag 240

aagaaaacac taacagcact tgggtgggcac atgccctgc atatccgtct ggtccccacg 300

gtagct 306

<210> 18370

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G5

<400> 18370

gaagagggaa aaatcgaaat gaaataaata aagaataaag ccaaaaaaat aagtcgaaga 60
tagaagagcc cagattcaaa atgaagaaat ggaaactcga aaaggatcct tctgattctc 120
aaagaatgag gggcaagggg attgataccg agaagattt cttcttatta taagacgtga 180
tttgatccgc atatgtttgg taaaagaaca atcttctcct ttaatcataa atggaaagtg 240
ttcaattaga acatgaaaac gtgactcaat tggcttagt tagtcttcgg gacggagtgg 300
aagaagggcg gagactctcg aacgaggaaa aggatccctt cgaaagaatt gaacgaggag 360
cgtatgaag ttaaaatccc aagtt 385

<210> 18371

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G6

<400> 18371

cccacgcgtc cgagctgacg gacgactgaa ccaccgacag acaacatggc cgcctccgcc 60
tccaccgtct ccggcctcgc cggcgcctcc ctggccagcc gcccggcgtt ctccaccagc 120
ttcacgcggg gcagccgggt gtcggcgagg aaccccccta tgagcaggaa cctggagagg 180
aatggcagga tcacctgcat gacgtttccc cgggactggc tgcggaggga cctgagcgtc 240
atcggcttcg ggctcatcgg ctggatgggg ccgtccagcg tcccggccat caacggcaac 300
agcctcacgg ggctcttctt ctccagcacc ggccaggagc tggccactt cccacgccc 360
ccgcccgtca cctcccagtt ctggctgt 388

<210> 18372

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G7

<400> 18372

aactgcggcg ggggcgcgcg cgggtgtcgt gtcaccagtc ccggcgcctt cgctcctcag 60

cgcccgccgc gccgggtcgc ggggcccgcg ggggtcgggtg tcggtgcgca gcacgggtgtg 120
ggacctcgtg ggccggggacc tgatgcggcc ggacctgggc aagtggctgg atccacctgc 180
acaagcaciaa cgcgctggcc atctacgcgc cgcacgaggg cggtacaac gcccgctacc 240
tgaaccgcct ccgctaccag tgctagtact tctcagagct caccgcgcag gggctcggcg 300
acgcggacat gacgctcact aagggtccacc ccgtctgcac gcctagcctc ggaagggtacc 360
ccgtggcggtg gtagtacttc ccggcc 386

<210> 18373
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G8

<400> 18373

agggaggttg gaagctcagt tagatgacca aatgattgca t 60
gaaa+cagat ggttcagaga ccgacattcc ctcc 120
ac aagtg aattc 180
t actct caagac actcaggaat tctatcga c 240
gatcaac gggcaa aacaacagca tacttctctc cttgacttga gaaattttga 300
cagc ca gattg 340

<210> 18373
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G8

<400> 18373

ca tc ca tggc agtgacagcg tgaagaaaga actaaaccct 60
ttgc tgtgtatca ggatccacaa acttctcagt caagtattgc aaaaggtaat 120
cttaatgc ggtcaaca gaaccaactc acacattggc tgggcatagt gaaaatcctc 180
actagctact cggatgtact aagggaaaat caggttcctt caattctggt gcataaactt 240
ttcaactcaaa tgttctcact tattgatgtt caattattta accgattact tttgcggcgt 300

gagtgcctgtt ctttttagtaa cggggaatat atcagagctg gactagctga actaaaacat 360
 tgggtccgaca atgctacaag agagtttgca 390

<210> 18375
 <211> 58
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H1

<400> 18375

agaaaaagca tcggcagcac gtctgagggg actgccaaact gcatggacat ccagatcg 58

<210> 18376
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H10

<400> 18376

gacagagaca gggacagcga cgatcacatg ctatttcaac gagaagtgat accgatagag 60
 tgggccctgt gatgcagcag gggttcgacc gtgcagagggc tgtgttcacg ctcatcagcc 120
 gctgcatgtg ccacacggtg actcagctga ttgccgacct gagcgtaaata gcatgggtgc 180
 acgagctggg cagcgacccc aggggcaagg acatgggtgca cgcgctgctc aatatgctga 240
 gatggaaggc gcccgccgctc tccgccgtca tcagctgcgg gaatctcatc tgcggcacca 300
 gcaaagtcac gtctctccac ctgcgcggat agctcgtgcc catgctcacg aatgctagcg 360
 ccctctgggt ctaca 375

<210> 18377
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H11

<400> 18377

acgcccacgc gtccgcccac gcgtccgccc acgcgtccga gaaaaagaga agatgaggag 60
 ttgcatgtgg agcgtaaaaa ggcacagttg gttgatacca agaaaatttc tattgacaat 120

agtcatgcag ctgctgtgga tacctctgag ctagtagttg aaatgatgca agtgaaggaa 180
gacattgaga accaagaatt agttgtgcag aaaattaatt tgaaacttac agatgctttg 240
caagaagaga ataatagaag agcgtcttac aaggacttca ttgagtctgt acatgctgaa 300
atgggggtcta ttagcgatgc tgagcgtgaa ttgcagcttg ttgaagaaaa aatacctgat 360
gctgagcaag agaaggccca ctatgaacgt g 391

<210> 18378
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H12

<400> 18378

gcaagcagcg agtacatata tactatgcag ccaggcagcc atggcgccca ccgtgatgat 60
ggcctcgctg gccaccgccc tcgctccggt ccaggggctc aagtcaccg ccagcctccc 120
cgtcgcccgc cgctcctcca gaagcctcgg caacgtcagc aacggcgga ggatccggtg 180
catgcaggtg tggccggcct acggcaacaa gaagtgcag acgctgtcgt acctgccgcc 240
gctgtcgacg gacgacctgc tgaagcaggt ggactacctg ccgcgcaacg gctggatacc 300
ctgcctcgag ttcagcaagg tcggcttcgt gtaccgag aactccaact ccccggtg 357

<210> 18379
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H2

<400> 18379

acgcgtccag tcaactactag tcacgttcgt ccaccagaga caacaatggc catggagacg 60
tgcttcagag cgtgggcgct gcacgcccc gctggcagca aggacaggct cctcgtcggc 120
aacctggtgc tgccgtcgaa gcgggcgctc gcgccgctgt ccgtgggccc cgctgccacg 180
cgccggccgc ggcacgtctg ccagtccaag aacgcagtgg acgaagttgt ggtggcggac 240
gagaagaact gggacggggt ggtgatggcg tgcgagacgc cggtgctggt ggagttctgg 300
gcgccgtggt gcgggcccgt ccggatgata gcgccggtga tcgacgagct ggccaaggac 360

tacgccggca agatcacgtg ctgcaacgtg aacacggacg aaagcccaac gtggcgtc 418

<210> 18380
<211> 110
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H4

<400> 18380

acgcgtccag ggcacttcgt cgaccgcgag ggcgcgggga agcacatcca ggcggggggcc 60

aagaaggtgc tcatacaggc gcccggaag ggcgacatcc ccacctacgt 110

<210> 18381
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H5

<400> 18381

accacgcgt ccgcgccgca ccagcgccag ccgcgccgt ggtcagaagg aggtccttca 60

ccgtgcgcgc ctctctccgc aaggccaccg gcaccgccgc cgtggcaatg gctgccagcg 120

ccctgcttgc cggcgggtgcc atggcccagg aggtgctgct gggcgcaggc gacggcgggc 180

tcgtcttcga gccagccag ttcaccgtca aggcggcgca caccatcaca ttcaagaaca 240

acgccggctt ccgcacaac gtcgtcttcg acgaagacga ggtgccgagc ggcgtcgacg 300

ccaccaagat ctgcaggag gtagacctca acgcgccagg cgagacctac tccgtcacco 360

tcaccgtgcc gggaacctac 380

<210> 18382
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H6

<400> 18382

cggacgcgtg ggcggacgcg tgggcaaggc tgtcggttag gttcttcctg aattgaatgg 60

caagctcact ggcattgtct tccgggttcc caccgtggat gtgtcagttg ttgacctcac 120

tgtcagaatc gagaaggggg cctcttacga ggaaatcaag aaagctatta aggctgcttc 180
 tgaggggcca ctcaagggtta ttatgggcta cgtggaggag gatctggttt ccaccgactt 240
 caccggtgac agcaggtcga gcatcttcga cgccaaggcc gggattgccc tgaacgacca 300
 cttcatcaag ctctgtctctt ggtacgacaa cgagtggggc tacagcaacc gcgtcgtcca 360
 cctgatccgc cacatgttca agacc 385

<210> 18383

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H7

<400> 18383

atctctttat ttcattcatct aaagtaaagg ttgcagaaga ttacagcag actttaaaag 60
 atttgtcat ctatatcttt tcgatcaaaa aaaaagaaaa aaaagaagaa aaaaaaaaag 120
 aaaaaaaaaa aaacaaaaaa ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa agaaaaggaa 180
 aaaaagaaga gaaaaaagag agaaaaaaa gggggggggc ctcaaagggtg tcaagttgga 240
 ataagcctga taggaggagg cagagagctc aaaaggggca ccaaaatgca agtccagggg 300
 gtgcttttta aaagcgtcgg acggggaaaa acccggg 337

<210> 18384

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A1

<400> 18384

agcggacgag tggggtggcg accgccgtgg tggccttggg gctgctggcg gcggcggcga 60
 cctcggaggc ggccatcagc tgcgggcagg tggcgtcggc catcgcgcc tgcattctct 120
 acgcgcggcg ccagggtctg gggccctccg ccggctgctg cagcggcgtc aggagcctca 180
 acaacgcgcg ccgcaccacc gccgaccgcc gcgccgcctg caactgcctc aagaacgccg 240
 ccgcccggcg cagcggcctc aacgccggca acgccgccag catcccctcc aagtgcggcg 300
 tcagcatccc ctacaccatc agcacctcca acgact 336

<210> 18385
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A10

<400> 18385

acgagaaatc atcaaagatg cgtatatata tagctccggc cgatcctcct ctctagctgc 60
atgggtatgta ggtgggtgtgg tccttggttc atttcaactcc agcgggtgatc agcgccgtgt 120
ataaatgtaa ttcctctgct ttgcac 146

<210> 18386
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A12

<400> 18386

acggtctccc ggcgtcctaa ttccaggaac tttcgtcgcg tcaggtgatg ctttttagcaa 60
ctacaagcat agaacaatgt tgatgcacta tgatgtggat agaagtgagg accggcaacg 120
tgaggagggtt cagtcagcat acacacggga cactgacatt ggtgaggaaa tgatcataag 180
tagcgaagag cagaatgatg aaaatgaatg gagctgggtg aaccaagata gagatgggtg 240
tcctcctgct gaatcgggtt cttcacttca tatgacacac caagtccttg aagatgagat 300
accagaatta tcagaacttg gcaaacaact tgaggcggac gaatccactt ctggttaaaa 360
agaccaggat gtgattgtct tgccgta 387

<210> 18387
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A2

<400> 18387

acggagaaag ataggagtca attaatttgc ctgttctgct tgctgctgac cttgtgagtg 60
agccgccggt cttccccttc ctgcgccagg ggaataata aggcagccac agccagggcc 120

gccccgagga agaagatgag cggaggaggc gtggacggag ctccggtcgc cgagttccgg 180
cagacggtga cgcacggcgg ccggttcttg cagtacaaca tcttcggcaa cctgttcgag 240
atcacgcaca agtaccagcc ccccatcatg cccatcggcc gcggcgccta cgggatcgtc 300
tgctcgggtga tgaactccga gacgaaagaa atggtggcca tc 342

<210> 18388
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A3

<400> 18388

acgtgatgca gcactgattt tcatggttgc agttggccca acaatggttg ttatagcttc 60
aatgttcatt gtaagacctg ttggaggcca cagacaagtg cgaccttctg atggcacaag 120
tttcacattt gtatacagtg tctgcttgct gttagcctct tatcttatgg gcgtcatggt 180
attggaagac cttgttgact taagccagtc agtgactgtc gtgttgaccg tgattcctaat 240
catgtttcta ttagttccaa tagtcattcc agttctactc agcttctttt cggatgatga 300
cgagactttg tatgcactat tgttg 325

<210> 18389
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A4

<400> 18389

atcattgaca aggagggagt gattcagcac tctaccatta ataaccttgc cattggtcgc 60
agtgtggacg agaccatgag gacccttcag gcattgcagt acgtccagga gaacccagac 120
gaggtctgcc cggccggttg gaagccaggg gagaggtcca tgaagcccga cccaagggga 180
agcaaagagt acttcgggc cgtctagact cgccgtcttt gacaagcttt gctacgtttt 240
tgtcatggtg cccgctaagc cccccggcag taggttgag ttttgaggag ctccggtttt 300
tacaaatctc ggtgctctga acccgacgta gtacccctt tggcgggtgtg caccocgatt 360
gagtgcggtt ctttgccacc tt 382

<210> 18390
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-A5

 <400> 18390

 acggcacagg cgaagcagca gcagcgagag gccaccacaa acatggcgac cacggcgttt 60
 ctacccccgg ccaagctgcc gctgcagggg cgtcggttcg ctagcccaaa aacggcggga 120
 cgtatcagtg tcaggggtccc tccggcgcgga gcgcagcaag agcagcaggt gaaggaggag 180
 gagggccgagg cggcgagcgt gccgccgccg caggccgcgg agaaggaggc gaggaagggg 240
 gacgcgcagt ccctgccgcg gcagcctttg gcggagagca agaacatgag ccgcgagtac 300
 ggcgggcagt ggctgagcag caccacgcgg cacgtccgca tctaacctgc gtacatccac 360
 cc 362

<210> 18391
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-A6

 <400> 18391

 acgcccacgc gtccgcccac gcgtccgccc acgcgtccgg acgacgatca cacacgcaga 60
 agatcgagtt cgttcgatcg tgaccgtgac gcaggaagct ataagctaac caagacagga 120
 ataataaggc cggagtcgac ggtggcgagc ctctctgtcc cggtgacgac gacgaccttc 180
 gcggcgggcg gcggcaggcg acgtgctgat cgtcgtcccg aggagggcg gcgccaagcg 240
 cgtcgtcagg ttccccgcgg cggcgcgccg cggctgcggg cggttggtca ccgtgcggtc 300
 caccgggccg gccacgccgc ccgagatctc cgacaagggtg tcggagagca tc 352

<210> 18392
 <211> 278
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-A7

<400> 18392

acgacagata agaatgctag acaatattct gagaagactc ctaacaggca tgaggagatg 60

cgtgagctgt tccagaatga tatgagtga tggaaacagg gacgctctc gaagaaaaac 120

aacaatttcg cgcacaaaac accaaacgct tttaacagca cagcaagata taagcgccgc 180

aaacagaata ctgggccatc cccggattta ttacattct cgtctcagtt ttgactgacc 240

gaccttgacg aaattctctg ggatccagat gtttccag 278

<210> 18393

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A8

<400> 18393

acgcgcatcc gccgccagca ggtgccaccg ccattctctg tctctctctc tctctcaagc 60

aacgccccgc atggcgacca tagccacgat ggccctgctg aagcccccca ggatcgtggc 120

gcggtcggcg ccgcgctcca ccagcggcag cgtctcgctg cgcgtcccg cgcgggcca 180

gaaggccgcg gtgtccgcgt ccgtgtcgtc cgcgtggcg ggcgcttct tctcggcgct 240

ggcgtcgtcg gacgcggcgc tggcggcgca gcgcgtggcg gacgtggcg cggcggccga 300

ctccgggagc gacaaccgcg ggcagctgct gctcttcgtg gtggcgcccg ccacgggtg 360

ggt 363

<210> 18394

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A9

<400> 18394

ttacgcgcca cgcgtccgtg agtatgagct caatcttcca agttcaaaca agggacttga 60

tgttggaagg gtgtattttg tgatcctcga gatgtccct gttacatata ttgattcgag 120

tgctgttcaa gctcttaaag acttgaccca agaatacaaa gcacgccata ttcagattgc 180

catagctaac ccgaaccggc aagtgtacct tctgttgtca agatcgggca tcattgactt 240

ggtaggagct ggggtgggtgct ttgtgcgagt gcatgacgcc gtgcaagtgt gcctacagca 300
 cgtgcagaat tcattcttcaa atgcgttgaa gctaccctgt caggcatcag gcgtgttgac 360
 cgattctggt tcgactccta aaccagag 388

<210> 18395
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-B1

<400> 18395

atattacaga cgcactttat tcataagttt ccttaatgac tactacaagc gatcgacccc 60
 accaaggcca caactctcac actggtttat gatacaataa tactgggtaca tggttacaaa 120
 aaaatgcaca acccccgag ctccatgtat atcacaagcc ggcagagctt atgcatatga 180
 agctgcacat gcatgcttat gtatatgttt gtgttatata tggatgtata tataacttga 240
 ccgtacgtgt acatatatga tgtatatagt ttagtgacga tacatcatat atatacagta 300
 gagtagcagt acatatgcag atgatga 327

<210> 18396
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-B10

<400> 18396

ggaccgaaca aatacgatat cggttatact agtataaact gggctctgaca caatttaaaa 60
 taagatacat tcattctactg ctgcgaacacc tgatcgcaact gccatagaca atttattaga 120
 gaatcaaata ttcattcattt ttcgtggact tgaattctct agtttagccac atgttaaccg 180
 tgacagtatt cgacatccac acccgtctcg cgtgctatga acttaccgtg accacttggt 240
 ggtagcgtga cggcttctga gcgcgacgag aaggatgtta ttcggcgagt gcagcttgga 300
 cgaagaacag acagaacggt ccgcgcgaag atgtttgacg gcggtgtgct tccgcg 356

<210> 18397
 <211> 367
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-B11

<400> 18397

acggggccagc atcggcgctg ggttcaccta cccgctcgtg ggcaccatga gcacgatgcc 60
tggccttccc accagaccct gcttctacca gatcgacgtc gacactgccca ccgggaaggt 120
catggggctg tcatgaattg aagtcctga tggatcatt cagagaacgt aaattcgggg 180
cattcctgga togagttaa taagagccgt tcctggcatc ctgcaagtgc agtggcgctt 240
ccttttttta cttgattttg taaaccggag actgtaaatg tgcttgaacc gtgcttttag 300
acccatgcct caaatcctgc atccaataag tgtctttgaa cagcctgagg ctgctgagac 360
tgttgac 367

<210> 18398

<211> 339

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-028-Q1-E1-B4

<400> 18398

cggcaaaaac ttcccggccc ttctccctct cctccctcgg cgcctcctc gcttccccca 60
cccgatttca cacgtctctc tcgtccgag ccctctcccc acgtgctcgt ctctctgccg 120
ccctcccttt cgcctccccca ctcgtttcag gcgggtacgg gacctgggcg gcgacttcaa 180
tctcgtccgc gggaagggtg agacggcggg ggctggaggt ggtgtgagag gccacgaccg 240
ggcggcggcc ggactcgggt aagaagaggg agcgccagaa cgacaagcac cgcacccgca 300
atcacgcgag caaggccgag atgcgcacta agatgaaaa 339

<210> 18399

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-B6

<400> 18399

acgccccagc gtccgaacca tctaccagcg actcagcgag cgagagcagc acacactgca 60

cgagctagc taggagcagc agcagcggcg gcgatggcgg cctccatgat ctctctgtca 120
gctctggcgg tggcgccctca gggcctgccg cccctcgccc gccgcgcctc ctctctcgcc 180
gtcgtctgct ccaagaagaa gatcaagacc gacaagccct acgggattgg ggggtggcctg 240
accgtcgacg tcgacgccaa cgggagaaaag ggcaagggca agggcgtgta ccagttcgtc 300
gacaagtacg gcgcgaacgt cgacggatac agcccaatct acaacgagga tga 353

<210> 18400
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-B7

<400> 18400

acgcatcatg acattaatgg aggggtgatgt gatattaaca ggtactcctg aggggtgtggg 60
tcctgtcaga gtaggtcaga agattacagc tgggtataact gacctaatg atgttgagtt 120
cgatgttcag aggcgaaatc ggtcattttc cacatgatgc aataagcaag aaagtaatgg 180
tgaatacaaa gtggcagtac tcgtcctoga ccttgaatcg cattactgga cctgcagcca 240
ttgcagatag ctcttgagcc tttccttgat ttaatttacc tgggttttga gagactatct 300
atgaatatgc taactcgttc gtgaagtatc tttttgtccc aaaaaaaaaac aaacaaaaa 359

<210> 18401
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-B9

<400> 18401

acgggtgctc tcccggcagc accacgaaga cgaggtcctt gagggatcct cgtcggcgctc 60
gagggacaac agccatagcg gcggtcgccg cgggcagcgg ttcgcgcgcg gattcgatgg 120
cctgcgcctc atcgagacgc tcgtcacggc gcaccgctga agcgacggac ccgcgatccg 180
cctggctgcc tatgctccgg tggtaatctc cccgcgcgca tgattcggcg attcgttggt 240
gctggtggcg cttaggccac cgagttttgt tagaacaaca atttcaggct tccccttttc 300
atttggtgct gtgctgttcg tcctcttggt gatgtccgtg gtcctgggac attcattccc 360

cttttttttag cct

373

<210> 18402

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C1

<400> 18402

acgcccacga gtccgcggaac gcgtgggcgg acgcgtgggc cgacgcgtgg gctgcatatt 60

agtgcatacc gacaaggaaa tgaaagaaca ctgactggga aacatgacac tgcgagcatc 120

ggaacgttct catgggggtgt ggcaaaccgc ggctgctcta tccgtgtggg gcgagatacc 180

gacgcaaaag ggaaagggtta cctgcaaga cgtcggccgg catcaaacaat ggacccgtac 240

actgtgactg ggctactggc cgagaccacg atcctctggc agccatccct cgaagcggat 300

gctcttgccg cca 313

<210> 18403

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C10

<400> 18403

acgatgagct caagctcaag gagatcaaga acggcaggct cgccatgctc gccatcctcg 60

gttacttcat ccagggggtc gtcaccggcg ttggcccgtt ccagaacctg ctcgaccacc 120

tcgcccagcc cgtcaacaac aacgtgctca ccagcctcaa gttccactag aacgttggtg 180

catcagcata cctgctgccg ccgcccagcag ttgtttgctg tggaaagcta gatgcatgcg 240

tgttgtaaag gaacctgaag cgttgcatcg gtcattgattc atgcatggcc agcctgctgc 300

ctgtaacaac aaactagtat tgatcttatt gagaccgaaa aaaacagaag ggggtatgcg 360

caccggcaga aaaaaagggc ggccg 385

<210> 18404

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C11

<400> 18404

acgcggacgc gtgggctttc caagaaatga gccttcattc cctgccactt tcatagtttc 60
tttcgctgtt ccacactgac atctatgatt ttggagcaa actctgatct gttttgacta 120
gtttacacgt ttgtgtgtgg 140

<210> 18405

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C12

<400> 18405

acgaggcatt tgctgatgcg ttgctgttc ttgagaatga gctactgcag ttcagttcag 60
aatgtagcat gcctgtatct tcattcaata tactaaagaa aataatcca agtattgatt 120
ctgatgagct gtagctataa aaaagaggta cgattccaca gaatacaatt gatgacaggg 180
tggaatgacc tgtgctgcct tctagacaca ctgatgtcta tgcagctgct cagaagcctc 240
agtgtggcaa gtttgatacc tctggaatag accaaaaaat agaccggcaa gatggcaata 300
ttcaaactg agctcttgtg tgttcatgca atggcacatg atgccttgct ccctgatcga 360
gcttcttgat gttcagatct ctgactga 388

<210> 18406

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C2

<400> 18406

aggaggtcat gtgggggtga actgagccga gacacctaca acaccctgat agctgcgtac 60
ggacggtgtg gctccaggac taatgccttc aagatgtaca acgagatgac cagcgctgga 120
ttcaccctt gcacaccac gtacaacgcg ttgctgaacg tgctgtcgcg gcagggcgac 180
tgggccaccg ccagtcgat cgtaagcaaa atgaggacca aggggttcaa gccgaacgag 240
cagtcgtatt cgctgctgct ccagtgtac gctaaggggg gcaacctggc agggatcac 299

<210> 18407
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-C3

 <400> 18407

 aattcaaggc tcgacggacg cgtaaggcgt gcgtggacgc gctcaacggc ctcgtagcacg 60
 ccgtcatcgg gaccaaggcc agcgacacct gctgcccgt gctctccggc gtggccgacc 120
 tcgacgccgc gctctgcctc tgcaccacca tcaaggccaa ggcgctcagc gtcagcctcg 180
 tgctccccgt cgccatctcg gtgctcgta acgagtgcgg caagcatgtg cctccagct 240
 tccagtgcc gtaatcacat cagctgcata tatgtgctac tatgatgtat caccaccact 300
 aatctatata cgcattgatg catcaatgca tgggtgatta acggtttaat acccgccaa 360
 g 361

<210> 18408
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-C4

 <400> 18408

 acggggccgc cagcaactc ctccgcggga gcctccctcc tgcccgttc gccgctgccg 60
 tctcgctct cacatacagc agcagccgcc aactctgcag taccacctc gccaacgatt 120
 cctccgccgc aggaccgtgg gacgaggccg agacggagat cctccgcgac gtcgagccca 180
 tcgtgaatat cgtcaaggac atcatccact cccgcaggta taaaaatggg gaatttttaa 240
 gccagatga tgaagaggtt gtaagagaaa agctttcttc tcatcatcct cgtgcagaag 300
 aaaagattgg ttgtgggctt gatgg 325

<210> 18409
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-C5

<400> 18409

acgaagaagc tagcgcttat agcttgtcag ccatggccac cgccgcccgc tctagcctcc 60
tcaagtcctc cttecggggc tcccggtccc cgccgcccac gcggaccaca ccggcgctccc 120
tcgtgggtggc caccggcccgc cgcgggcgcg gcggggggcc catctgcgcg tccatgtcca 180
tgtctctccc caaccgccc tacgacctga cgtccttcgc gttcagcccc atcaaggagt 240
ccatcggtgc ccgcgagatg acccgctcgt abatgacgga catgatcacc tacgccgaca 300
ccgacgtcgt catcgtgggc gccgggtccg ccgggctgtc ctgcgcctta cagctcccca 360
aagaaccccg ccttgagcat cgcca 385

<210> 18410

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C6

<400> 18410

acgggatatt attgctatct tgggtatgga tgagctcagt gaggatgaca agctgacagt 60
cgcccgtgca agaaagattc agcgtttcct gagccagcct ttccatgtcg ctgaagtttt 120
cacgggtgct ccaggaaagt atgtggagct gaaggaaagc gtgaagagtt tccagggtgt 180
tttggtatggg aagtatgatg acctccctga gcagtcattc tacatggttg gtggcattga 240
ggaagtcatt gctaaggctg agaaaattgc caaggagtct gcttcataag gaggcttctt 300
gcttgttcaa ccctgtagaa gttccatttt tggattttta gcgttttagtt atgcctttcc 360
cagttag 367

<210> 18411

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C7

<400> 18411

acgcggacgc gtgggcggac gcgtgggcgg acgcgtgggc ggacgcgtgg ggaaaaatta 60
accggccagc cctggagctg cttctcggct cttccaacat cccctgcttg ctaccgttca 120

gttcagtctt cagttatccg agtgaccgtg gatcagccat gcctgcgctt ctagtgaaca 180
 ccgtctcggt ctcccccgcc gcctcaaggc taggctcctc gcggcccgcc acggcacggc 240
 gagcagcaag cgctcgccac ggccacaggt gccgagccga agcatccggc agctcgtggg 300
 tgtcggacta cgacctgtac gagctgctgg gcgtggagcc gtcctcg 347

<210> 18412
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C9

<400> 18412

acgccacgc gtccgccac gcgtccgagg acgcgtggga ggcgacatat cgagcaagta 60
 aagggtggcac tgcccggtgt acttaaagtt atgcatgcta ctgtatcaga atgtgttgag 120
 gaacatggaa gtgctgctgt tgatcttttc aatgcagcac atggtgttgg caaggccatt 180
 caagaaatgt gcatatcaat ggtttgttaa tctaagtaac tatgtgagct gtttaatgtt 240
 gaaacttatt ttaccatttt gtttatcatt tctatgttct gattgatttt gcattattgt 300
 tctgtctact gaaagttcaa caaaaacaaa gatctctgtg caattcttgg ttataactcc 360
 cttcagaata tagctcttgt atcacgaag 389

<210> 18413
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D1

<400> 18413

acgcggacga gtgggaggac gcgtgggagc atcgtggct catctccacg ctgtgctcgg 60
 tgctcaagcg cttgttccct agctctggcc acaccagtct catctcccta ctactcgtcg 120
 ttcgacccat gcattccagt cgttacctgg ccgtgcgggt gcagtgcagg ggcggccatg 180
 ggtgcccagc cgaccactac cgccttgac tctgtctggt tctccgcgtc cttgctgtgg 240
 agcctcagtt gccgtgcctc tctgctcgcc catggcgctc cggccaacct cgccgacct 300
 gtgcgtgcct caacgcgctc gcacgcctg cttcctggtc aacgattttc cctgggagc 358

<210> 18414
 <211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-D10

 <400> 18414

 acgcctgact ggcaagtgag ataacagaag gagcggcggc tacagctttc ggttgggggc 60
 atacaccgtc aatggatcag catgtcctcc atttagatcg acacagaata agctgctgca 120
 aactagagcc attatgtgac accatgtcac gtgtgtttga tgaactcctt ctatctgccc 180
 ctgccaaggg agagaagaga atagacatat tagtgtgtgt agattagatg tgcattggcat 240
 ccatggaaat ggtgaaggat gaaccagggtg ccataaccg tgatgtacgc tggcgggtgcc 300
 gtatcctgtt cttgatcagc ttgacagcga cgggga 336

<210> 18415
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-D11

 <400> 18415

 acgcccacgc gtccgcttat ggtctgtacc acatgttttt gctgctacgc aagtaaaaaa 60
 ctccacgtct gtcaatgtta gttttacaac atcgtctacg gacaaacccc ccccccccc 120
 cccccgctat ttgattgttg ctaagccttc gtacgacgtg taaatggttt ggtacaatga 180
 gtgctgcgac tacgattgag caccctctta cctagtttgc aaaaaaacag tgtcccatgg 240
 actgtctgtt gtccctctat ataaatgtcc aatgaagctt gctaaaaaca gaaagtagaa 300
 taacacaggt catgataaaa taaagggcgg cc 332

<210> 18416
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-D12

 <400> 18416

acgcggacgc gtgggcggac gcgtgggttc cagaagcgca agactctaaa ggccgtcgcc 60
 ttcccattct tctcgcgcgc gggggtcgcc tgagatcaca taaacaatgg tgaaggctgt 120
 tgctgtgctt ggtagcagcg atgggtgtcaa gggcaccatc tttttcacc aagaggggaga 180
 tggccctacc gctgtcaccg gaagtgtctc tggcctcaag cctggcctcc atgggttcca 240
 tgtacatgca cttggtgaca ccaccaatgg atgcatgtca actggaccac actacaatcc 300
 tgcgagcaag gagcatgggg caccagaaga tgagaaccgc catgctggtg atcttggaag 360
 cgtgacagct ggagcagatg gtg 383

<210> 18417

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D2

<400> 18417

aattcaaggc tcgacgcacc cgtacgcgcc taatagctaa taccacaaca acagcacgaa 60
 acacttcac caccagcggt tgtactcgtg catggccttc gttcgccatg gatgcatgct 120
 ctgtactctt ctacaagcaa attctgttac atggcgccca gccaacgttg tgtacttgtg 180
 ttgccattgg ttatcagtac aacgctacgg agcccataaa tcttcaact 228

<210> 18418

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D3

<400> 18418

agcccacgag tccgcccacg cgtccgcaca ctctcgcga tcacataaaa ccagtgcag 60
 cagaagcagc gcaatggcga gcagcaccat ggccctctcc tccacagcct tcgccggcaa 120
 ggcagtgaac gtgccgtcgt ctctcttcgg cgatgcccg gcgacgatgc gcaagacggc 180
 ggccaaggca aagccggcgg cgagctccgg cagcccgtgg tacggccccg accgcgtgct 240
 ctacctgggc ccgtgtccg gcgcgcccc gatctagctg acgggcgagt tcccgggcga 300
 ctaccgctgg g 311

<210> 18419
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D4

<400> 18419

acgcttctcc tcgctcctcg ccaccgtgga ggcggagctg gccaaagggcg gcaaggccga 60
 gttcaacaag ctcaacgacg tcacctcctt cgacttcatac ggcgaggcct acttcggcgt 120
 gcgccccctcg gcgaccgagc tcggcaaggg cgggccgagc aaggcggcca agtggctcat 180
 ctggcagctc caccgcgtgg tcacgctcgg cctccccatg gtcttgagg agccgctgct 240
 ccacacgttc cactcccgcc ctttcctcgt caagggcgac tacagggcgc tgtacaagta 300
 cttctccacg gtgg 314

<210> 18420
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D6

<400> 18420

acgggcgact ttgtcattaa aaagggtgta ctgaatgatg atgcaaatta tggttacaat 60
 gctgccaaaga actgctatga ggacttgatg gctgctggaa tactggacgc aacaaaggtt 120
 gtgagggtgtt gcattgagca tgctgctgta gttgctaagt cctttctcac ctctgatgtg 180
 gtgattgttg aggcaaaaga aggcaaacct attcgaataa gacccccaat gctcctagg 240
 cacttaattc cccaatgcc tgcttcaatt tcaggatttc gaggtagca gtcgtccttt 300
 ccaccaagaa tcagcctcaa cacaacaaga ctacgggg 338

<210> 18421
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D7

<400> 18421

acgcccacgc gtccgcccac gcgtccggcg gcggcggggc cacacgtggg caggggtggg 60
gaagacggcc cagggggcgg cggcgcacgc cgcgctcttc tgcttcactc tctcctcgc 120
gctcagggtc gacggacgca ccgcatactc ctggtggata atattcagtc cactatggct 180
ctttcatggt attggtgcac gcggaagggt ttcaatgcct gcccttctt tgctcatgg 240
ccgtcattgg gcaccatgtc attcgattgt tgcggcgctt ttactaattg cgttcgagct 300
gcttctttgt atatatcttg aaagcataag agttagaaat catccatctg ttgatctgaa 360
gattgtgttc ctteccct 378

<210> 18422
<211> 347
<212> DNA
<213> Zea. mays

<223> Clone ID: LIB84-028-Q1-E1-D8

<400> 18422

acgcccacgc gtccgcccac gcgtccggcc ttgcccactt ctacagcccc tctgctgcag 60
caagaaggaa agaagctagc gcttatagct tgtcagccat ggccaccgcc gccgcgtcta 120
gcctcctcaa gtctcctctc gcgggctccc ggctcccggc cgccacgcgg accacaccgg 180
cgctcctcgt ggtggccacc ggcccgcgcg gcgcggcgcg ggggcccatc tgcgcgtcca 240
tgtccatgtc ctctccaac ccgcctacg acctgacgtc ctcccggttc agctccatca 300
aggagtccat cgtgtccgcg gagatgaccc gtctctagat gacggac 347

<210> 18423
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D9

<400> 18423

acggccgctg gaggcacaga cgacaaggca tccgccccgg atcgagcccg accctcttc 60
tcgtctcgtc tctgcgctgg gaacgccggc tgccatggct cagcagaaga acgcgcacgt 120
gcccaagttc ggcaactggg acagcgacgg caacgtgccg tacacgtctt tcttcgagaa 180
cgcgcgcaag ggcaaggag ccggagccgc cggcgggcggc aggatgatca accccaacga 240

ccccgccgag aaccgcggagg ccttctccgt ggccgcgccg tcgccgccgc cgggccgcca 300
cgagcgccgc ccagcgacg cgccgccgcc gccgatgtcg cccaaccct actacgcagc 360
cgggtcgccg taccaccgcc acgcc 385

<210> 18424
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E1

<400> 18424

agcaagctat tgctgatcac ttcaagatgg cgtggactg cttcttcgct gtatggtttg 60
ttgtgggaaa tgtgtgggtg ttgtgtggac attcttccgc ccattgacga cccaacctgt 120
acaggttgtg catagccttc ctcaatttca gctgcattgg ctatgcgatg cccttcattc 180
tctgcgcgct gatatgctgc tgcctaccct gcataatctc cctgatgggc ttccgggaag 240
atctggacga aaacagaggt gctacttcgg atgcgatcaa cgccttgggc acatacaggt 300
tcatgtcaaa gaagcctcgt aacggggagg caaaccaaag ttgccgtgga gtcctttgcc 360
ctggaacgga aaagg 375

<210> 18425
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E10

<400> 18425

acgcggacgc gtgggccgct tcttctccgt cgcgccggcg ccggtcgggg cgaaagggct 60
ccgagcggcg gcctccgccg ttgaggtggg cggcgtaaag atcgcgcgcg aggatgttgt 120
gaaagaagat gacctaacaa acaacgtgcc agacactatc ttgccaaga ttggcctgca 180
gctgcacagg agggataacc atccccttgg gattctgaag aacacaattt atgattactt 240
tgacaagaac ttactggac agtttgacaa gtttgatgac ctttgcccc ttgtttctgt 300
caagcagaat ttgatgatg tcttgggtccc ttctgatcat gtaagccgga gttacaatga 360
cacatattat gttgatgatc aaacag 386

<210> 18426
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E11

<400> 18426

acgcccacgc gtccgctcca ctatctgaac aaggaggaca ggctgcttcg ctggctggtc 60
gtgaagcaca gagacacggt atacgggttg gagttcttga acgcggatgg cgggagggac 120
gagctgagaa gtttcagcca tggtcacacg aagggcgact acgatattga aattgactcc 180
gatgacgaag actccgacga ctccgacgac gaagagtacg caatcgagga ggaagaggaa 240
gaggaggcgg cgaacgatga ggagaagaag tagaactgtt tggccagggt tctgcagtct 300
catctgtatt ggcagatgcg cgttttctta gaaatcaaata gttctctttg taacatctgc 360
gactttttat aaaggctgta gggatatgg 388

<210> 18427
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E12

<400> 18427

acgcccacgc gtccgggccg gcaccgcctc cggcggcccg tgagaggagc gacttcacca 60
aggcacaaga ggagccggtc aagaagagga agatcaagtg cgaggtgaag gtggaggagc 120
aaggagctgg cttcggcgat tacgacctcg gccacggcga cctgtggatg gatctcaacc 180
cgggaggggt cctgagcttc ttggaggagg agggcgtgtt ccagggcctg gctgctgctg 240
ctgaccacga cttcttgacg ccctttggct cgtccaggat ggatttggtt ggtgaaatgc 300
acgcgtcttg acaatggaga agcaagtaga agcaagtgtg cttatatattc agacagtgga 360
gactggagaa gcaagtgtaa gcaacaccag 390

<210> 18428
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E3

<400> 18428

aattcaaggc tgcaccgacc cgtaagctcc gaactagaca gcctgggaga ggagtcctac 60
aaggacagca ctctgatcat gcagctcctg cgtgacaaet tgaccctatg gacttccgac 120
accaacgagg acgccggaga tgagatcaag gaagcagctg ctgccccaa agaatccgcc 180
cccgagggcc agtaagacgg atccgatctc ccgacctgat gcgtgtctgc tgatgtcagg 240
gagtttacca agactgtgcc gttcttgatt tctgatagct tatcttctag tacacctcgt 300
gttgtttctc tcgtcacggc gccggtgact gttcgcc 337

<210> 18429

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E4

<400> 18429

acgcggctag gtacgcctta ggaattcaag actcgaccga cccgtacgcg gacgagtggg 60
ctaaattcag atcctgaaga tcaagaacca cagacattca agacagctcc agaagaaacg 120
cgagatcagt tggctgacgc actacatcaa aggtgtcgcg caatggctga gagtgcacac 180
ctgcagctcc gatgaatccc gcgacgtatg gccactagac ccgctcgagt cgcgccaccc 240
gaagcgtgcc cgctgaggtc agggcggtta cgagcactgt 280

<210> 18430

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E5

<400> 18430

acggcgagcg agagcagcac aactgcacg cagctagcta ggagcagcag cagcggcggc 60
gatggcggcc tccatgatct cctcgtcagc tctggcggtg gcgcctcagg gcctgccgcc 120
cctcggccgc cgcgcctcct ccttcgccgt cgtctgtctc aagaagaaga tcaagaccga 180
caagccctac gggattgggg gtggcctgac cgtcgacgtc gacgccaacg ggagaaaggg 240

caagggcaag ggcgtgtacc agttcgtcga cggatacagc ccaatctaca acgaggatga 300
 ctgggtctccc atcgggcgacg tctacgtcgg ttgaaacaat gggcctctg 349

<210> 18431
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E7

<400> 18431

acgcccacgc gtccgcggac gcgtgggagc taataatgtg gctgctaacg caagtgtgaa 60
 ccagggaaat ccttcttcca ctggatgatg tcttcttgac tttgatatgt acctttctga 120
 gattcaaagt acccagcctg caaaatgtga tctggagcag tacttgaggg aatccctcac 180
 tccacgtatc caagagtttg atatccctaa ttgggtggaag cttaacacac tcaagtttcc 240
 aaccctgtcg aagatggccc gggatatctt ggccatccca atgtctatgg ttagcagtgg 300
 cagctccata ttctctgctg gaactgggaa ccgcattgct gatgactaca gaagc 355

<210> 18432
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E8

<400> 18432

acggaagttt gagtcagggtg tacaccgtgt tcagcgtggt cccttgacag aggctatggg 60
 tcgtgttcat acgtcaacag caactgtagc tattatgcca gaggctgatg aagttgatgt 120
 gggtattgat ccgaaagata ttgagcttaa aacagcacga tctgggtggag ctggagggca 180
 gaatgttaac aaggtggaga cggctgttga tcgtattcac aagccgacag gaatacggat 240
 attctgtacg gaagagagat cacagctaca gaacagagag cgggcatttc aattgttgag 300
 aacaacactt tacgagataa aattaaggg 329

<210> 18433
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F1

<400> 18433

aattcaaggc tgcaccgacc cgtccgcgga cgagtggggc atgttcttgg cgggaaaagt 60
tgaagaaaca cccagacctc tgaaggatgt catacttctt tcatatgaga tcatccacaa 120
aaaggatcct gctgcagttc aacgaataaa acagaaggaa gtatatgaac aacaaaagga 180
acttatttta ctcggggaac gtgttggtgt tgtgacactt ggttttgatt tgaatgtgaa 240
ccatccttac aagcccttgg ttgaagcaat aaaaatattc aagggttgtc aaaatgcact 300
tgctcaagtt gcttgaatt ttgtcaatga tgggctccgc acttcacttt gcttgcaatt 360
taaaccgcac 370

<210> 18434

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F10

<400> 18434

acgctttctt agcaagatgt ttttatctct gtgctatagc tcattagaaa ttttatctta 60
aaaatattat tctgatttga actcaagaat agggagaaat tgtgaattgt gaaatataat 120
gcaacataca ctgaaacata ttagagtcga ttaggctaga gtatgacatg ttttcccttt 180
caagaatgga tacagaatga ctcatatgaa tgaagacagt gcttgttttg tagaagtcta 240
aatggttacc tatgtggcat ctgatttttg gttctagaca tatttccgtt aatatggagc 300
tatatatgaa gatgtgaaat ttagtttagt tgttttatgt ttctgtctg ttgagttcta 360
gtcgagtcca cccacagca t 381

<210> 18435

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F11

<400> 18435

acgcacctgt ggcgcatact ctctgtccc aaaaccaaac acggcggtgc tgggtgcgcg 60

gcagctagca gttgagtgtc cgcccttgtc gtcagtcgag tcgagcgatg gagaagacga 120
 cggtcgtgct gtacccgggc gcggggtcg gccatctcgc gccgatgctc gagctagcca 180
 aggcgttgtt ccgccacgca ggtgaccagg tggacgtcgc catcgtggtc gtcgagccgc 240
 ccgtctacgc ggacggcttc gccgccacgg tcgcgcgcgc caaggcctcc aacgcctccg 300
 tcgcctgcca cgtgctaccc ccgccggcct ccgacggcgg ccgcgagcct gacgaccccc 360
 tgacccgact gctccgcttc ctccgcg 387

<210> 18436

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F12

<400> 18436

acgggtcaaca ccaagctatt tgagggtgaat ggcaagagggc aggctctcgt tttatttgag 60
 actgaagagg cagcgaccga ggccctcgtg tcaaagcatg ccagcacact tgagggtaac 120
 acgatccgga tctctttctc ccagatgcag agtatataag ccacctcaag ggaaagctca 180
 tgccgccctc gcttgccacc cggcgagcac tttttaggaa gcatttcaga ctaagatgtg 240
 aatcctctgc gccattctcc aagatatgct gtctgagctg tacctcccc tgaccttcgg 300
 gttttctttt cactctacac tggccttgca ccaaagggtt tctgtgtttc tttccaaatc 360
 ctgttggcta ggttatcaaa ggacattta 389

<210> 18437

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F3

<400> 18437

acggccaaaa catcgcaacc aacagcgtaa aactgatgaa tagctttact atttacatga 60
 attttacgct gttggttgcg atgttttggc aggtcgagtc agtcgactcg acaccgtagg 120
 actgatgtct atagtagtgc tattcatcag tttactgctt tgtaacatct gtaactgacc 180
 gtgtactctg tatctaccta ttccaccgaa gatgtaccgg gtaccatcct ggccgtacag 240

ctcctgcggg

250

<210> 18438

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F4

<400> 18438

acgctcacct ccccaaccgt ttgcctccgt ctcgcgtgac ttcattccca gcggccggcg 60

gcgacctcca cgtggtgcc a ttgcgcggca acgagcacc gccaccagg atccaggttt 120

gtgctgcgag agcgcctatc cattcaccat gattaatttc gtgctcctga tcagccgcca 180

gggcaagggtg aggcacacca agtggtattc tccttacacc cagaaagaga ggaccaagggt 240

cattcgcgaa ctcagtggac tcattcttac acgagggccc aaactctgca attttggtga 300

gtggagaggt tacaagggtcc tataccggag gtttgccag 339

<210> 18439

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F6

<400> 18439

ggacaactgg gcactggtga taacctctca aggaactttc cttttgaagt ggcatacttt 60

aatgcaacac atattgagaa gcttgctttt ggtatgcgcc attctcttgt actactgaaa 120

gacaattcag tgtatggatt tggctcagca agacgaggac aagttggtaa atgtgcttct 180

aggatccaaa aatcatataa tgttcctaga ctgattgatg gttttccaaa ttgtaagata 240

gtaaatatat atgccaatgg cgatcacagt gctgcattgg acgaatctgg tcactctgtat 300

gtctggggaa gagcattaat tggacaacat gatgatgat 339

<210> 18440

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F7

<400> 18440

acgcccacgc gtcgcgccac gcgtccgccc acgcgtccgc taacaaacac taacctagtg 60
ttactcagggc aagccccggg gcatgcaacc ccttccttat gtttttaaat aattttcgca 120
cactttaagt ctagtgaaat gtgcattagg tttataggag ttgcttgaaa ccctttgatg 180
cattgccttc cttgatatcc ataccttatt agatacttct ggtgaagtat caaaatatga 240
tttacaaaaa tgcttagccc tgctcagatc ttgtggatag aggttgtctt ttgcgttaag 300
gccttgctca ggggttatcc tgaggaaaga tggcttcac ctgcaagaat aatttcaatg 360
aaaaccttgg tggaatctaa cggaaa 386

<210> 18441

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F8

<400> 18441

acgcccacgc gtcgcgatga gccacgattt ccctgcgggc ccgtcgttgc ggttgttggg 60
ggtcaaccgt atcctcgggc atccggttgc atgcctcagt tgccgccttg gagctcgttg 120
tggccgttgc ggccaacccc gcaagcccggt ccttcctccg ctataagcct ctaatcgctt 180
gtgaccgtgc ccctaccttc ctttgaacca gtccccgaga gctccgtgac catggactcg 240
ccaccgctaa acagagagta cggggaaagc gccgccgga aggcgtggcc ggccacatcg 300
agcgggacct tgggtgactgg gatggttgc 329

<210> 18442

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F9

<400> 18442

acgcgttcac agatctggcc gaactggccg tgctgggaag aagggcactg caattgtgat 60
gtacaactat gaacaaagta aagctgtgcg ggtcagtga cgtgacgtac gatgcaagtt 120
tactgagctt ccaaaaatta acgttgacgg atccgacttg ctgggtggtg gatttgactc 180

cttcgggggt ggatgtggtg ggtatggtgg ctcaaactat gggcgctcac cagggggctt 240
 tggtagacgt ggcggtagtg gtggtttttg ccatcaggc ggtggatgat ttggcacttc 300
 tgggttttggc cgctcaagtg ctggatttgg tgactcggga tttggacgct ccgggggtgg 360
 acggttt : 367

<210> 18443.
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G1

<400> 18443

catgccaccg atcacagtac agcaaccagt gcâtgggtgg cctgggaccg gggcctctgt 60
 agctgggcat ggtctatgcc ggacgtcgaa agacggtaag gtcctcttcg actcgtgggt 120
 ggataccgac ttcatgaacg gagatgactc aaggccgttg gcatgatgat catccggaac 180
 cagcgggtgct cagtgtca 199

<210> 18444
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G10

<400> 18444

cgccgtctcg cacaggctcg ttgttctct tateccgga ggaagaacct tggcccgaca 60
 ccatgctccc aatggccgct caccaccacca ccacgccggc cttgtccccg cgcgcccgcg 120
 tctcgccgca caggcctccc atctctctccc tggcggacc ctcgtctctc cctgcccac 180
 gcatcgtcag tttcaaaagc aggaggctgc cacttcgctc tctccacatc gccgctgocg 240
 ctgccgccgg ggcagaggaa gaagaggcgc aactaggtgg aagtgtgaac gcggctcgacg 300
 aggaggaagc ggagaataag gtggtggtgc ccgagagaca ggacccgatg ctggtactca 360
 agttcatctg gatggagaac aacatc 386

<210> 18445
 <211> 96

<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G11

<400> 18445

acgccccacgc gtccgcccac gcgtccgggt tatgtatgtc tggttataac caaccattgc 60
atcactatatt ttcattttta atattggtgt tacgat 96

<210> 18446
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G12

<400> 18446

acgggcttcg gcgcctccgt cgcgcactgg cgcaggaaca ttgggggtgt gtctgaatcc 60
tataccgtct acgcgatcga tttgctgggg tttggcgcgt cggacaagcc tcttgggttt 120
tcttacacga tggagacatg ggccgagctg atactggatt tcttggagga ggtggtcagg 180
aggccccacg tgcttgtcgg gaactcgggt ggaagcctcg cgtgcgtcat tgctgcatca 240
gagtccagca gagaagccgt ccggggggctt gtctgtctga actgcgccgg tggcatgaac 300
aacaaggcga tcgtcgatga ctggcggatc aagctgctcc tgccactgct ctggctgata 360
gacttcctgc tgaaacagcg gccgat 386

<210> 18447
<211> 331
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-028-Q1-E1-G3

<400> 18447

cccacgcgtc cgcccacgcg tccgaacgcc gtagcaacta gcaacgctac cacagtgcgc 60
gcttgaagat aggttaacac cgcttcttat cctcagttcc aaccccagct cctcagttct 120
cgtcatcgtc ctgcgcgtca gtgtcatctt cagttcccgg tagcagccat ggcgtcggtg 180
cagctgtctg ggccgcgggt ggtggcggct gcgaaaccgg ctgcgttggg cgggctcctc 240

ctgacgccgt cccttgccgt gccaaagggg cggagggcca ngggcctcgt ggtgagggcc 300
gccacggtcg tgtcacctaa gtatacatcc a 331

<210> 18448
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G4

<400> 18448

acggagagaa gtagctagag gtagcaccag caaaccaaat aagcagacca ccttctccac 60
ccggctggcc tggccggcct tcgtcttccct ccgatcccca ggccccagcc actccccgta 120
caagccaaaa agaccagtag gtaggcaggc agttcatcgt cgatcgagca agatgtcggg 180
ctggggcccc gtggtgatcg ggctgggtgct gttcgtgctg ctctcgccgg ggctgctcgt 240
ccagctcccc ggccgccacc acttgggtgga gttcggcaac ctgaagacca gcgccgtctc 300
catcctcgtc cactccatca tctacttcgc gtcacatcaac ctctcggca acggcaaccg 360
g 361

<210> 18449
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G5

<400> 18449

acgcagaatc agaccaccac acgcccagg cccgactgca agcgccctgag cccaagaccc 60
atggccatgg ccgccgccac cgtcgcagcg tctactgccg tggcgcaagg gctcgggaag 120
cccctctgcg ccggcagcaa cgcgccgtcg ctccgggccg tcgcggggcg gccccgtcgt 180
cggtcggcca ggaccaggat ggccgtcgtc cgggcgtccg cgcaaaagca gcactcggcc 240
aaggagt 247

<210> 18450
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G6

<400> 18450

aagcattggt gagcaggctg cccgtgagaga tgtgcaggag gcctgtgtac atgatggata 60
tggttctaccc aaattgtatg caaagggttca tcaactgtgtc tcatgcgcaa tccatgcgca 120
cattgtccgg gtccgtctc gtgagaacag gaggaaccgt gagccccgc agcgcttcag 180
acgcgggat gatggcccaa ggcctgggtc gggcccgccg cggccaggcg gtgcagctcc 240
tgcagctgca cctgctgctg ctccctgtac ctaagttctg gaattagttt cggggcttag 300
ttttgtgaaa cattacctgt ttgagaaac cattgttact gtatccccctt gatgttcaac 360
gttttttagta aaatttgtgg ttctgaaaaa 390

<210> 18451

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G7

<400> 18451

acgcacttac aagcatcacc gcgagcgagg agctgatatc cacaccatct ttgtgaagaa 60
gagcaaattc aggattctgc tgtcatttat cggcacaacg ttccttcttg tgtctgtttg 120
ctgcgccctg ttatcgaagg atggtttatg tctttgttcc ctttgagca tttcatttgc 180
cagtgttaatt gcgaaatgcc tgcgatgtga ccctgtgaag aaagagtcac tggatgatcat 240
gccgactttt ggaattcaat tagagcaaca cttttggagt ggaagagttc atcgcaaatt 300
tgtgcccatt ggcaagattc taagaccag 329

<210> 18452

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G8

<400> 18452

ttccggctcg aaccacgcgt acgcacgcac actgcataca caacgcagag catcagaagc 60
agctgcgacg tgatcgacat ggctgccgcc accatggcta tcacctcccg cgcgctcgtc 120

ggcaagccgg cggctggcac gagggacgtc ttcggcgagg gccgcatcac catgcgcaag 180
accgcgcgcca agcccaagcc ggcggcggtcc ggcagcccat ggtacgggtgc cgaccgcgtc 240
ctgtacctgg gcccgctgtc cggctcgccc ccgagctacc tgaccggcga gttccccggc 300
gactacgggt gggacaccgc ggggctgtcg gcggacccgg agaccttcgc caagaaccgc 360
gagctgggag tgattcaatg gccgct 386

<210> 18453
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G9

<400> 18453

acgatcctat ctgcatggtt tacaatgtat tgggttgtgt catttgtgtga agaatgtttg 60
gtggttagtc tgaccacata ttcagaagct aattatgtaa tttcttatat gttgctttga 120
ggcaaattga acagggattt gtttggcttc caaatggttt gttggctcta aaatagtcag 180
aatcacatga tatctgtgct atagatatga acctcggtgg tttctccac attaggaaag 240
ctggaagagc cttttgaact cttttttttt gctaacagtg gtgttatggt gaaacagagt 300
tttgtgtgta tgtaccaaca gctaaaatgt aaacatgaca ttatcatagt tgagtacagg 360
aataattatc tcttatatct tatt 384

<210> 18454
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H1

<400> 18454

agcaggcact gaggaaggag cccttgacgg tttatggtga tggaaagcaa accaggagtt 60
tccaatatgt ttctgatctg gttgagggtc tgatgaagct gatggaaggc gagcatgtgg 120
ggccattcaa cctgggtaac cctggcgagt tcaccatgct tgagcttgcc aaggttgtcc 180
aggacaccat cgacccaac gcacggatcg agttccgcaa gaacaccag gacgacccgc 240
acaagcgcaa gcccgacatc agccgcgcca aggagttcct tgggtgggag ccgaagatcc 300

ccctgcgtga gggccttccc ctcatggtct ccgactttcg caagcgcat 349

<210> 18455
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H10

<400> 18455

acgcggacgc gtggggcgacc acgtcatcaa tccggggccac tggaccgagg acatgcgcga 60
cgacgcgctg gaacctgccc acctcttcag ccgccacctc acggtcgtcg acgtcggcgg 120
cggcacggggg ttcaccacgc tcggcatcgt caagcacgtc aaccgggaga acgtcacgct 180
gctcgaccag tccccgcacc agctcgacaa ggccccggcag aaggaggccc tcaagggggg 240
caccatcatg gagggcgacg ccgaggacct cccgttcccc accgactcct tcgaccgata 300
catctccgcc ggcagcatcg agtactggcc agaccacag cgggggatca aggaagccta 360
cagggtcctg agatttgggt ggctagcttg t 391

<210> 18456
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H11

<400> 18456

acggccagga gcttcttcaa aagttgaggg agaagaacat cgattttgct gctcacagca 60
accaggagga ctctggttct cttctgttca accttattgg aaatttggca ttcccgttta 120
tccttatcgg tggctctgtt ttactttcaa gaagggcaca ggggtggcctc ggtggaccca 180
atggtcctgg ctttccccctt ggttttgggtc aatctagggc caagtttcag atggaaccca 240
acactggtgt tacatttgat gatgttgctg gtgtcgatga agcgaagcaa gacttcatgg 300
aagtggttga gttcttgaag aaaccggaaa ggttcactgc tgttggtgct cgcattccta 360
aggggtgttct gcttgtcggg cctcctgg 388

<210> 18457
<211> 260
<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H12

<400> 18457

cgaaacacgc gtacgcccac gcgtctgcgg acgcgtggac ggacgcgtgg gtgcgattca 60

ccaccaagag tagtttcttg ggggtctata atagtaagga agaataaaga gccacggtgc 120

ttgacgcca catgcgttgt aggcattgaa cgggggcacc tagcttggtc tacagcgtg 180

tctattttga attggtgcga ctttgttgct ctttttctc ccccttata gcttatgaaa 240

caagatcctt ttgatctgtg 260

<210> 18458

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H2

<400> 18458

acgcccacgc gtccggaaac ttgattactt gcaatcaaaa ctcttgca atgtcttttt 60

cagcctctcc aaacccttga aaaagccagg gaaatggctt aatgaggctt tgaaaagatc 120

aacagataac cagggatttc agatctggat agacaaactg agactatggc ttaaagagca 180

aacttatgca gataattcac tgctgttgat agaaagctct tcatgggaca agcttagttc 240

tgatcagtta cctgatgcag atgttcctat ttggatcgct gcacaaaggg cagtctctcg 300

ttatgaagga attttgtcac ctgttg 326

<210> 18459

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H3

<400> 18459

acgcccacga gtccgcccac gcgtccgcgg accaaataca cgctcccgtc tcatccgatg 60

gctcctctcc tttccccgcc gctgctcgcg gacagcgtca ccaagttcca tgcggcctca 120

acgccagtct cgtgctccgg tagcccacaa cgctacgtca tcacagggtt ggctggggcc 180

ggaaggggag agcacgactg gcgtcggagg acgtggggaa gaacgaacct gagggtgaaa 240
 gcgggtggcgg cagagtcccg cagctcggat gggggaatcg ctgaagatta ttacgctgtt 300
 cttggcggtta tgccagatgc aacgccgaag cagatcaaga aa 342

<210> 18460
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H4

<400> 18460

gtatcgactg gggctgggcc ggtgtggtct ggctctacag catcgtgttc tacttccttc 60
 tggacctgat caagttcttc atccgtttcg tgctcagcgg cagggcatgg gacaacctcc 120
 tggagaacaa gaccgccttc accaccaaga aggactacgg gcgggaggag agggaggcgc 180
 agtggggcac cgcgagagg acgtgcacg ggctccagcc gccggaggcc gccaccagca 240
 cgctgttcca cgacaagaac agctaccgcg agctgtccga gatcgaggag cagccaaga 300
 ggcgcgccga gatcgagagg ctgcgggaac tcaacaacct ca 342

<210> 18461
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H6

<400> 18461

acgcgaagcc acaggtcgaa ggcggcggcg gcgatgggga gcgacacgga gacggagaag 60
 aaggcctcgg tggcgctgat gtccatcgcg aaaccctcgc ctggaaagaa gctctgcaag 120
 cggaccctca agctcgtgcg acgagcctcc gaggcgaagt gcctcaagcg cggagtcaaa 180
 gaggtagtca agagcattcg ccgcgggaac aaaggattgt gtgtgatcgc tggaaatatt 240
 tctcctattg atgtgattac acatgttccg atactatgtg aggaagctaa tggttccttac 300
 gtatatgttc catcaaaaga ggatcttgcg accgcaagaa ccactaag 348

<210> 18462
 <211> 343
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H7

<400> 18462

acgcccacgc gtccgcccac gcgtccgcga gaccttcctc ggacacaaca tcgtcgacaa 60
tattattctt cagcgcagcg gctactcagt ttatccttgg acagcaagtt cccttctctc 120
tgtggctttc tcttgcccct gtggtcattg gtgtttcaat ggcatccctt actgagcttt 180
cattcaactg gactggcttc atcaatgcc a tgatatcaa catctcattc acttacagga 240
gcatttattc caagaaagct atgactgaca tggatagcac caacgtgtat gcttacatct 300
caataatcgc tctaattggt tgcattccac ctgcattgat ctt 343

<210> 18463

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A1

<400> 18463

aacggacgcg tgggttcgcc gccgccgcct ctgcgatccc cgcaaggctcg caaacatgtc 60
taccgtgctc cagcgcgccga cccccggcac ggtccagtgc ttcggccgca agaagacggc 120
tgtggccgtc gcctacacca agccggggcg cgggctgata aaggtgaacg gcgtcccgat 180
tgagctcatc aggccggaga tgctccgcct caaggccttc gagcccatcc tgctggcggg 240
gcgctccagg ttcaaggaca tcgacatgag gatccgcgtc cgaagcggcg ggaagacgtc 300
gcagatctac gccatccgcc aggccg 326

<210> 18464

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A10

<400> 18464

gcgtccacac aagacaggat gtatctcttc ccaagagcaa atatgaaaag gatgtgttca 60
ttaataatca cagcagcgtg tggggttcat ggtggaaaga tcatcaatgg ggctacaagt 120

gctgcaagca gactatcaag aatagttact gtactggctt ggctggaata gaagctgccg 180
 aggcatcagc agatctaata aaggccaata tggctctcaa ggaggctgca gaagatgagc 240
 ctgtacagca tgaagagaag cgattagcca ctgggggaac cgatgtgcct caggatcctg 300
 ttcttaacga gaag 314

<210> 18465
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A11

<400> 18465

tcccgggcag acgcacgcgt caaccgcacg catccgtgtg ttacacgca caggtaaagc 60
 gcgagcggag agatgggggt tggttttgat ttggagacag ggatgagaca gagcatggga 120
 tggggccatc aacaaagtgg agggactagc ttgcgaggca gaaagaaggt gccagtgccg 180
 gtgcctcccc ggtgaaacga tgatgggagt gttgttgctc cctcccctgc actgcctctt 240
 ccctggctcc gatccccac cgttgcccat ccatcatctc cctctcgctc tcgtttatgc 300
 tcttgctgc attctttttc acagtaggca tgcagtacta cttttggttc tctttgcaat 360
 atatatactg caggtttgct aatcgctaag agcctaagaa tcttccgcct ggagtggact 420
 gttctt 426

<210> 18466
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A12

<400> 18466

aggtgatagt taacaccttc cctgcaactg cctcatgtca tacccaaacg tttaaagtgt 60
 tgggtgatat gatgcctgca caattatggg acacaacaat ggatcctgac atgcggctgt 120
 tgaagcaact tacggttgaa gatgctgccg aggccaatTT tgtgttcccc tcaacttatgg 180
 gcacccgggt tgatctattg cagcacctga tccacaccgc tgctatcatg atcatcatac 240
 atcatcttga catttgcatg catcacgtac tgccgtccat tctctgtacc acatacattg 300

tcagccatct gctgcatttc ttgctactcg atcacga

337

<210> 18467

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A2

<400> 18467

caacggtcca cccaagcgtc cgcccacgcg tccgcccacg cgtcgcca cgcggtccggg 60
ccaagatcca ggacaaggaa ggtatcccg cgaccagca gcgactaatc ttcgcgggga 120
agcagctcga agacggccgc accttggccg actacaacat ccagaaggag tccacccttc 180
accttgttct tcgcttcgc ggtggcatca ttgaaccttc cctccaggcg ctgcccgcga 240
agtacaacca ggacaagatg atctgccgca agtgctatgc acggctgcac cccagggtg 300
ttaactgccg caagaagaag tgtggccaca gcaaccagat ttgtatataa gcaagatggt 360
gcgagtcagc tttagctgag gg 382

<210> 18468

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A3

<400> 18468

ccacgcagtc acggtcgcgt gagtcgtccg cccacgcgtc cgcccacgcg tccgggcca 60
gatccaggac aaggaaggta tcccgccgga ccatcagtga ctaatcttcg cggggaagca 120
gctcgaagac ggccgcacct tgccgacta caacatccag aaggagtcca cccttcagct 180
tgttcttcgc cttcgcggtg gcattcattga accttcctc caggcgctcg cccgcaagta 240
caaccaggac aagatgatct gccgcacgtg ctatgcacgg ctgcaccca gggct 295

<210> 18469

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A4

<400> 18469

agtgagcccc cctgcttttt tttggcctct cctctccgtt ggcgacgcat acatccggcg 60
agggagcgga agaagtcagt aaattctgtc gctccaatcc ggacgaggag atgccgcgga 120
tccctctgat caagttcccc aagcggaatc tgaaagcccc atccgcgcca gtgccgtcgc 180
aaccgcgaga tcagcacgcg accctcatgt cccggttggg ggctaaagca gaggcacat 240
cttctggagg gattaaaaat taccgcttta gttcagatgt gccttcccc aagtcgcata 300
ctgctgtaag aggtcaagct tcaatccttc ctaagcgtaa acctctgact g 351

<210> 18470

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A5

<400> 18470

acggacgcgt ggggtgggtgcc actgcttcac acacatatgt cctggagacc aaaacacagg 60
gcaggttcca ggggtcacca gctatcatta cataccgtgt tcccacaaag acagctcttc 120
aggaggcata ctcaactccc atcttccac tggatattct cgctgagaga cctccagaga 180
agaagtttga atgggctaag aggcttgtga tgaaatacgg gtcacttgtg tctgttgtct 240
cttttgttgg actgtttatc taccttgtcg cgagcccgtc gaagagcagc tcaaaggcaa 300
gcaagaagag acgctgatct acttataggt cgcagttgac ggtgtagctg gtgggttttgc 360
ctggaggaac t 371

<210> 18471

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A8

<400> 18471

acggacgcgt gggcgacgc gtgggggttct tcaaactgct gttgcgacgg aggaaaagct 60
aagtgtgcat tcaatcacgc ttgtgccgcc gtcgtgtgtg gtgaggaggc gttggcatcc 120
cccagtaagc aataggacat ccttcggata ttttgogctt tgtatctcca cacagcccga 180

gggcatgagg ggggccgtga gaaataagat cctcccatgg acaaggacga gtaggagact 240
 gcatgagcag caaatgcttg ggatcgttcc caaacgggtt cccttattca tcgcatacag 300
 ccgggacaat gatcagtagc aggttttcaa ggtttcctca attcgctcgc g 351

<210> 18472
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A9

<400> 18472

acaaaggaca ggatgtatct cttcccaaga gcaaatatga agaggatgtg ttcattaata 60
 atcacacgag cgtgtggggg tcatgggtga aagatcatca atggggctac aagtgtgca 120
 agcagactat caagaatagt tactgtactg gcttggctgg aatagaagct gccgagggcat 180
 cagcagatct aatgaaagcc aatatggctc gcaaggagge tgcagaagat gagcctgtac 240
 agcatgaaga gaagcgatta gccacttggg gaaccgatgt gcctcaggat cttgttctta 300
 acgagaagaa gctccaggaa tctctaaaga aggaaactgc gaggatgaaa gatgacaaag 360
 acgaaaggaa gacgaagtat aacgtgaagt ttaacgatta gggttactgc 409

<210> 18473
 <211> 115
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B1

<400> 18473

acgcgtcaag cagaacaggt gcaacacatg tatgcttgct ggatggagga ttcataccag 60
 ctgatgctga tgtagtggtt cactgggtgc atgcatgtat cgtgctatta taatc 115

<210> 18474
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B10

<400> 18474

acgcgtccag gtaatgatag agagtgggtca catttcggac acagttggca gatctgtggt 60
 actggttagga cgatcaaata cacatgtcgc tgcaccttcg acagtggcgg caaacaacgc 120
 ggtgcagatc cgctcgcga tgatcctgct gctgttggtg gatgaccccg atgtgctaca 180
 tcagcgaggc agtgctg 197

<210> 18475
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB84-029-Q1-E1-B11

<400> 18475

accacacgt ccggtggacc ggcttagtgg agaaggacac cgccggccag accaacatct 60
 actccgtcga gccgatggtg tacgtggccg agagcgccat cagctccggc acggcgggta 120
 cgtcggcgga gggcgccgag aacacggccg ccatcgccgc ggggctcgtc ctcacaccg 180
 tagccgcggc ctcgtccatc ctcacccagg tgaacaagag ccaggtgccg caggtgccgg 240
 aagccgccta cagcgggccc cgcctcagct actacgtcac caagttccag ccggcgggtg 300
 ctgcgccggc gcagaccctc gaggcccccg cccccaacga gacacaagac ggcgcgcgcg 360
 ccaccgtcgc ggctccggag gtaccnggca cgcagctgtc gtcgtgagct g 411

<210> 18476
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B12

<400> 18476

agggcacgcc gacgacccgg aggcgttcgc ggagctcaag gtcaaggaga tcaagaacgg 60
 ccgcctcgcc atgtttcca tgttcggctt cttcgtgcag gccatcgtca ccggcaaggg 120
 tcccgttgag aacctcgccg accacctcgc tgaccctgtc aacaacaacg cctgggccta 180
 cgctaccaac ttcgtccccg gcaagtgagc gagggcatat acatacttgt atgcgtgtac 240
 cgtagacata cgtattcgta tatgtactgc aggagatgta ccagtatttg tgaagcaggg 300
 agcatgggct cagagattgt accagtagtg tacgtatttg catgcatgct ttggtccttg 360

tggacattat caatgaaata tgctg

385

<210> 18477
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B4

<400> 18477

atgatgggta tgacactcca ctcatgaaa gtgagtatca atttggtttg tctgccaaagt 60
ttgataactt caatgttcta catggtctgg aggcttcttt accgtggaag cagaagactg 120
ctattgagat tgcaaataag accaaacctt gtaaggctgt agatgataaa atcgaagaaa 180
aatacaaggc cttcaaacga tttgatactg ttgatgatca tagtgatcat tattattcaa 240
agccagaatc aagaaagggt caagcggtaa aaaagccatc aaaagactgg gtcaaacgta 300
ttcagcatga gtggaaagtc ttagagaaaag atttgccaga tactatattt g 351

<210> 18478
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B5

<400> 18478

acccacgcgt ccgcggaacgc gtgggggggc gatggccgcg gcaaggtagt ggacggcggg 60
cgcgggctgg acctgacgct ggaccgcacg tccggctccg gggtccagtc caagagcgag 120
tacctgttcg gcaagatcga catgcagatc aagctggtgc caggcaactc cgtggcacgg 180
tcaccacctt ctacctgtcg tcccagggcg acgcgcacga cgagatcgac ttcgagttcc 240
tgggcaacgt gagcggggag ccctacacgc tgcacaccaa cgtgttcacg cgcggaacagg 300
gccagcggga gcagcagttc cgcctctggt tcgaccctac cactgccttc cacacctact 360
ccatcctgtg gaaccgcgag cacgtga 387

<210> 18479
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B6

<400> 18479

acgtttgcc aatcaacacc agcaacagca aagcgactac agagagtagg agatgcttac 60
tctccacacc attcagtcac gccctcgcg gcgcagatcc tctctgttcc ggcgtgctct 120
gctaggcagg aagagatctt tcatttctgc cagcagttct gaggatgccg aatccggcac 180
tccccgcgcg cttggtggcg acaaacacca gcaggagggtt cttgcacaga tcgccatgct 240
tcagacgcag aaggtgcgca tcacagactt cttggacgag cgctctgctt acctgaccaa 300
gttcgccaaag gacgccgact cggagttcga cctgattggg cagaacgcct ataaaga 357

<210> 18480

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B7

<400> 18480

aggcgaggga tcggtcctgc ctcccgggga ttgctgggaa cttgatcctg catcgttgcc 60
tcccagagttg ctgtgcctgt gcacgaacc accgaaatga cctgcttatg gtgtcaaagg 120
ttgttgacagg tgttttagtt gttaggatcg gctgtgtata tggcacataa atcgacagagg 180
aaggctgctg gtttgttctg ccatgtcaaa tagtatgagg atccgtctga tttgccaaact 240
ctagctgggc actgctcatg tttatgatcc ttcttcatgt agtttctcag actaacactg 300
ctctggtata tggatgattc ttatgaactt cttttatatt aaagccgagt cgaaacgggt 360
cctgtccggt gtacacgtcg ctcaaactg 388

<210> 18481

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B8

<400> 18481

acaggttcat ggttttgggc ctgcgcacgc aaccgctact gataatgcta attttgtggc 60
ggcttcgacc gtggttgctg aaaatgattc ggatgattcc atgtctaagt tttttgagtc 120

tgatgattct gggagttcgg ttgtgtggac ggaggagtct tcggatgagg acttggatta 180
 ttttgcggcc ttggatgtgg ctgcggcgga ggcttctccg cgtgtgatgg atgctgaagt 240
 tcttcctggt ccgagtgtcg ggcgtatgcg gcgaaggag gtggcgaagc gtagagttag 300
 tgaggtggag agtggtcacg ttcgtgtgga tggggctg 338

<210> 18482
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B9

<400> 18482

gcgtccaccc aaaacctoga ctgcgttcgc gtcggctcct acatcgacgt caagggcccg 60
 cttggccacg tggagtacac cggccgcggc agcttcgtca tcaacggcaa gcaacgccat 120
 gcgagccgcc tcgccatgat ctgcggcgga agtgggatga cggccatgta ccagatcac 180
 caggcgggtg tgcgcgagca gccggaggac cacactgaga tgcacctcgt gtacgccaac 240
 cggacggagg acgacatcct cctccgcgac gagctcgacc ggtgggcggc cgagtaccgg 300
 gacaagctca acgtgtggta cgtcatcgac catgtaaagc tcccggatga ggggtggaac 360
 tacagcattg ggttcgtcac ggacgccgtc ctgcgggagc accgttcccc aaggtgggga 420
 a 421

<210> 18483
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C1

<400> 18483

acccaagcgt ccgcccacgc gtcctgttag cagcagtcgt cgtttcgata cctgcttgta 60
 ggcgcaagcg tgatcacgtc ctatgtgctg ctgcttgtaa tttgtgtatt gaggagacga 120
 actgtgcgtg ccgcttggtta tattgttgcc acgaaagag aagcagatat atgagcaactg 180
 cctt 184

<210> 18484
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB84-029-Q1-E1-C10

<400> 18484

```
acgcaacctc caaagccact cccaaacccc cgcttccaga accttctcga agctccccgc 60
cgcdctctcc actcgcaccg atggcgaagg aaccaatgcg cgtgctcgtc actggcgccg 120
caggacaaat tggatatgcc ctggttccca tgattgctag ggggtgttatg cttggtgcag 180
accagcctgt tattctgcac atgcttgaca ttccgccagc agctgaagcc cttaatgggtg 240
ttaagatgga gttggttgat gctgcgtttc ctcttctgaa gggagttggt gctacaactg 300
atgttggtgga agcctgcact ggggtcaatg tggccgtcat gggtgggtgga ttccccagga 360
aggagggaat gganaggaaa gatgttatgt cgaaaaatgt ttc 403
```

<210> 18485
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C11

<400> 18485

```
gcgtccactt cactataaat tcgtcgacct ctccatatca cagagagata gagagagaga 60
gagatagaca ggagagagag agagagggga agagagagag agagagagag agagatagat 120
gtggtaactc aagaactggt cttatgcatg cagcagccat aagcattgct actagcgtct 180
cctgcacgtg ctgtgtcggt tccaggggtt catgcggggc gaagcagctg gtctctgccg 240
cctgaacgcc gccggaatct gcgaggcctc cccgagctgc gtgcgtcgtc ggataaggca 300
gceggcacgg caatgccggt tccgcttget ccgtaccag ctctccggc gccattcacg 360
ccgccaatg gggcccagag ccagctcgtc tgcaccgggt gccggaacct cctca 415
```

<210> 18486
 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-029-Q1-E1-C12

<400> 18486

cgcggtccgac gaaaatggcg gcggcggttc ctctcccctg accagagcca gggcgtgcca 60
ctgccatgtc gccactgaca aaggcggtcg cggcggcggc ggcgggcgag tttctcatct 120
cttcgggatt ggatacaggg cgtgccatgc ctgcgtctca gatctcacga ttggcatgcg 180
ccctgaacttc tcgctcttcg tatctcccc tccctctccc ggcccgtgct agcgtcggag 240
gaattgtatt gtcgtagatc tgttgctcca taaatgcctt ccctatctgt ggccgagcgc 300
aaccaagaaa cgaggtatgg ccggaggag aggtanggct ggtcggctgg acctggctcg 360
ctggacgttg ccggactgga cttttccctg 390

<210> 18487
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C2

<400> 18487

aatttcttat agcattgtct gggagatagc aaaactgtgg atgaaaggct gcaaggttat 60
catccttgac atcccgtgc tgtttgagac aaagatggat agatggacga atccaatcat 120
tggtctctgg gttgatccaa aagtccagat tgagaggctc atttcaagag atggatgctc 180
tgaaggacaa gtcagaata ggatcaatgc acagcttgca ctagactgga agaaatcaga 240
agcagacata gtgattgaca attctggttc cctggatgac accaaacagc aattccaaga 300
agtgttgatg aaagtctcgg agcccttgac atggaaggaa cgcttgaga 349

<210> 18488
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C3

<400> 18488

agggcatgaa tgtacttcct caaaggctgt gtccctgtgcc tataaatagt gaacagtatt 60
cctttaatgt tcatgcattc ctgtaattgc aaacgcatca ctcggaatt atttttgtc 120

aaggcaaagg tataaatgta cctaaatatt atgttttc

158

<210> 18489

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C4

<400> 18489

accacgcgt cgcgcgcct tttttttttt tttttttttt tttttttttt tttttttttt 60

taagaaccaa cagcctcac aaaggctaac tcaagaattc tgacttgacc atcgcatgtg 120

gcctgagcct gagaacaaat aaaattgac tagcaacaga acagaaggta ttgtcgtaga 180

ttggcacctg aagatatatt ttctcagtgg atcaatgttt catggacata aaaaaatgta 240

taacacgtag agcacttata ctggcagagg ctgcaccag gctcaataca ggaccactca 300

ctaatcgtaa ctgcactccc gatgtcatat ttgttcgtc aggtga 346

<210> 18490

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C5

<400> 18490

ggtatacagg agtgctctgc ccatggagaa ggcggggcaa caacgccatg ttatcggcgg 60

cggcggcaag aaggcgcccg cgctggggct gcagaagcag aactcgtggg cgccggacat 120

cgagcgcgac gaggcgtggg agcgccggcg caggggcatg cgccgcgggg gcacggcgct 180

gcgccgcgcc cgcagcgtca cggacgacga cctcgacgag ctccgcggct gcatcgacct 240

gggcttcggc ttcgagccgg cgcacgccgc cgcgtgcgcg tgcgcctgcg cctgcgccgg 300

gaggaaccgc ctcttgaga cgctgcccgc gctcgacctc tactacgccg tccacggcgg 360

ggccgcggag gcgccgccgt gctcgtgogg cgccgcc 397

<210> 18491

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C7

<400> 18491

aggttgtaaa cttttatgag gggcatgatt gtaattcctc acaggctgtg tcctgtgcct 60

ataaatagtg aacagtattc ctttactgtt catgcattcc tgtaattgca aacgcacac 120

tcgggaatta ttttttgtca aggcaaaggc ataaatgtac ctaaataatta tgttttc 177

<210> 18492

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C8

<400> 18492

agttcagggg gctggtgaac gacctcgga tgcagggtgt agcgtgtccg caggctcgact 60

acgtctcggg ggacgacatc ccggagagcg tcgtcggcaa ggagaaggag atcgagatgc 120

agagggagga cctgcagtcg aagcccagga gcatcagggg gaagatcgtg gaagggcgga 180

tcgcgaagag gctcggcgtg atggccctcc tggagcagcc ctacatcaag gacgacagca 240

agacggtgaa ggatctcgtg aaggagacgg tcgcctcact cgggggagaac attaaggtgc 300

ggaggtttgt ccggtacacc ctgggcgaga actgatcggg g 341

<210> 18493

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C9

<400> 18493

gcgtccaccc acacgtccgc catgccgaag atgcttaatg atggagctgt tgagtatgag 60

gatggtacac ctgcaactga agcccagatg ggtaaggatg tcgtatcatt cttttcgtgg 120

gcagctgagc ctgagatgga agagagaaag ctgatgggag tgaaatggat ctttctacta 180

tcactagcgc ttctccaagc tgctactac cgccgcatga ggtggtcagt cctgaagtcc 240

cgaaagctgg tcctggatgt cgtcaactga ggactatcat tacccttttt ttattgaaat 300

atgttgagcc gttaaggagc attcaaaata atgagttggt ggtgtacaat ttgccactg 360

gggctaggtt ccatgcctag aaattaattt gttttcttta ctctgctgag ctgcaaaa 418

<210> 18494

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-D1

<400> 18494

accaacaacc agcagccgca ccacgcaccc agcgcaaagc gatggcgctg ctcaccatga 60

tggcgctcctt cgccgcegtg ggggtggccg cgeccctcgg ccgcggcacc ttcgcegtgg 120

tcaggctccg caaggctgac cgctgccagg agcccgccac gctagcagca accgaggcca 180

ggcccgccgc cgacggacgc cgcgccgtca tgetcgggc tgetgcggcg gccgtggcag 240

ccatcggcgg cgccggcgcc gccatggcgg gcccgaagaa cgggaccccc gaggcgaaga 300

agaagtacgc ggccatctgc gtcaccatgc ccaccgcaa ggtctgcaa aactgagcac 360

gcccgcgttg catgcaactg cagggccggg 390

<210> 18495

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-029-Q1-E1-D10

<400> 18495

cgctccaag cgactcagcg agcgagagca gcacacactg cacgcagcta gctaggagca 60

gcagcagcgg cggcgatggc ggctccatg atctcctcgt cagctctggc ggtggcgctt 120

cagggcctgc cgccctcgg ccgcgcgcc toctccttcg ccgtcgtctg ctccaagaag 180

aagatcaaga ccgacaagcc ctacgggatt ggggggtggc tgaccgtcga cgtcgacgcc 240

aacgggagaa agggcaagg caaggcgctg taccagtctg tcgacaagta cggcggaac 300

gtcgacggat acagcccaat ctacaacgag gatgactggc ctcccaccgg cgacgtctac 360

gtcngtgga nactgggct tctgatctgg gccgtcac 398

<210> 18496

<211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB84-029-Q1-E1-D12

 <400> 18496

 aagccacatc tcgctcttcc tcggtttccg cttctcgcgt ctctctttct tcctgctctt 60
 ctccaccacc gcgctctacc gctccagcac ctctctctcc tcggcgcggg tccttcgcgc 120
 caccaccacg acaaccacca ccacgaccac cagcagcagc acgaccaaca ctttcacgct 180
 ctctttcgcc gccgccaaca ctcccccttc ccccccgct aaccgcaccg cgctggatgt 240
 ggccgacaag ggggcggcgt ccgggaaccc acagagtcac gtcgtggtgg ggaggcacgg 300
 gattcggatc cggccgtggc cgcacccgga ccccgctcgag gtgatgcggg cgcaccggat 360
 catggagcgc gtgcangagg aacagcgccg ctggt 395

<210> 18497
 <211> 203
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-D2

 <400> 18497

 tgcagacgga tgacctgcag tcgaagcccg agaccatcac ggagaatatc gtgcaatggc 60
 ggatcgcgaa gaggctcggc gtgatggccc tcctggagca gccctacatc aaggacgaca 120
 gcacgacggt gaacgatctc gtgaaggaca ccgcgggtca cgctgcaga ccattacggt 180
 tccgaggttt gtccggtaca ccc 203

<210> 18498
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-D4

 <400> 18498

 acccacgcgt ccggaagcta cagctgcagc acacagattc acagatacct gttgttccag 60
 ctcggagcag atagagcatc tctagctagt tagtttgtgg caagagcgtg agaaccaac 120

cgaccgagtg aacgatcatg gcggcggtctc tgctaggccc gaacaccgga ggcaacaacg 180
gcttggggcgg gaggggtccac gcccgagcgg gcggccaccg ccggtcagct gcggcggtga 240
agcggctgct gttgaggctg aggcgctctt ggagaagacg cgcggcgcgg ccgaggcgaa 300
cctcggtgag gttcgggtac gacccgcata gctactcca gaacttcgac gacggcactg 360
cttcctacga ccaccac 377

<210> 18499
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-D5

<400> 18499

acggacgcgt gggcggacgc gtgggggtctg atacagtatc ccacaaaag gtttctggtg 60
taagctggag tttggaaaat acgccacgaa gaataggatg tgtagtctct ggactaggtt 120
ttgcagcgta tgggctggcg agtgctgagg gtctgtcaa caacaacata gatagcactg 180
aatctgccat gtcttcaaca aatttatctc atgggaaaga agttcacaca gactattctg 240
ttactggcat tcttgggtgat ggaagatgtc tgtttcggtc tgtggttcac ggtgcctaca 300
ttaggtcaag gaagcccgtc cctaattgggg atcatcaaag aaggctggct gatgagttga 360
gaacaaaggc cgcagatgaa tttatcaaga ggcggggcaa 399

<210> 18500
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-D6

<400> 18500

acggacgcgt gggcggacgc gtgggcggac gcgtgggctg gagcctgatg ttacagtgt 60
tctagaactt aaatgcggta tcgtttggat gttcatgtat cgttgagtcg gtgtgtcgtg 120
aggtagttta gctgtgggt gatacgtctg tatttccgca gctctggcgt gagag 175

<210> 18501
<211> 90

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-029-Q1-E1-D8
 <400> 18501

gacgcgtggg cggacgcgtg ggcgcacatct tacgctgttt tctccattac atagtttctgc 60
 agcactaaaa ttaccactc ttattttctga 90

<210> 18502
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-029-Q1-E1-D9
 <400> 18502

gcgtccacga aaacgcgagc gctgcggaac aacgatggcg acgatgtctc ttgccgcggc 60
 gtcacccctc gcctccattc cccgcggcat cgcgcctcag gtccttgcg cggcattcct 120
 gtccatccgc ttaggtggcg cgacggcgac gcggttcgct ggactggcgg tggcctcgca 180
 gccagcggag cgtcgcgccg cggcgatggt cgcgatggcg aagagggagc acgagctgga 240
 ggagatccgg gccatgacga cggaacagat ggaagaggag gtggtagacc tcaaggggga 300
 gcttttctctg ctccgcctta agcgcctcggc ggcgccaggag ttcaagaaca gcgagttcag 360
 ccgcatgcgc aagaggattg ctcgatatg 388

<210> 18503
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB84-029-Q1-E1-E10
 <400> 18503

cgctccaga aaatgttgaa cctgctgaga tcgangaagc agccagcagg agtaccttga 60
 ttaatcagat agttgtgatc ggccaggatc aacggcgtct tggtgccata attgttccca 120
 acaatgatga agttctggca gaagcaaaaa ggaagtccat ccttggtgag gatggcgagc 180
 tagcgaaaga taaggtcatg aacatgctat atgatgaatt gagaacctgg accgcgcact 240

gctccttccg tgcggggcca attttggttg tgcacgaacc gttcacgatt gacaatggtc 300
 tgatgacacc caccatgaaa ataagaaggg acaaagtgc agacaagtac ag 352

<210> 18504

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-E11

<400> 18504

gcgtccaggt aatgttgaag ctgctgagat ggaggaatca gccagcagga gtaccttgat 60
 taatcagata cttgtgatcg gccaggatca acggcgtctt ggtgccaaaa ttgttcccaa 120
 gaatgatgaa cttctggcag aagcaaaaag gaagtcctac cttggtgatg atggcgagct 180
 agcgaaagat aaggtcatga acatgctata tgatgaattg agaacctgta ccgcgcactg 240
 ctccctccgt gtcaggccaa ttttggttgt ctacaaaccg ttcacgattg acaatggctc 300
 tgattgacac ccattatgaa aataagaatg gacatagtga cagacatata caggagggag 360
 atctaagcct tgttcaagtc acacgcggag cgcgtgcgca cccatcaaag ttccct 416

<210> 18505

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-E12

<400> 18505

acgcgtcaac ggacgcgtgg ggtcgccagt tgagggttgtt aaggaacaag ataaagagtt 60
 taataaactg gcaactgatg ccatgattcc ttctatgcct ggacatgtgg ttcaagcttt 120
 tacgttgctg aaatcaagca cggaggctca gagtggtgtc gcctcccttg catcagatag 180
 aaatgtctgg gatgcagtat tgaagaacga gaaggttatg gagttttata agactcacca 240
 gacaactcta gttcagacat ccctaacga agccgtcaca gtagagttgc cggggaagct 300
 ggaagatgct gcctctgaaa acacatccag cgggcgaatt ccccgctggc tcaggcctga 360
 gtttctccga 370

<210> 18506

<211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-E2

 <400> 18506

 acctgatcct accgcagctc tccctcaggt ttagtggtcg caatggcggc cttcaacaag 60
 cttggtggcc ttctaaggca cagtgcctcg gtgagcggta tcaactgggtg ctcttctcct 120
 gcagtgttca atgctgcacg gctcatgtct accaagctat ttattgggtg tcttgactgg 180
 ggtgttgatg acgtgaaact aagagaagca tttagcagct ttggagaggt tactgaagcg 240
 agggatgatca cagacaggga gactgggagg tcaagaggct ttggctttgt gaactactcc 300
 gacagtgatg ctgccaaagga agctatttct gcaatggatg gcaaggaaat tgatggg 357

<210> 18507
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-E3

 <400> 18507

 acgcgtcaac ctaatcctac cgcagctctc cctcaggttt agtggtcgca atggcggcct 60
 tcaacaagct tgggtggcctt ctaaggcaca gtgctctggt gagcgggtatc actggtggct 120
 cttctcctgc agtggttcaat gctgcacggc tcatgtctac caagctatctt attggtggctc 180
 ttgactgggg tggtgatgac gtgaaactaa gacaagcatt taacagcttt ggagagggtta 240
 ctgaagcgac ggtgattaca gatagggaga ctggcaagtt cacatgcttt ggctctgcag 300
 cctaactctt cagtgttaca gtccaggcaa caattgctct atgctgctgc tgctgctgaa 360
 tacctgaaat ttggtggtgt tcggt 385

<210> 18508
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-E4

 <400> 18508

acggacgcgt gggcggacgc gtgggatcgt gcgagcccct tcggttactg gtcgtccgca 60
ggcggcaggc gaacccctct ccctccctgc gatctcttag ctgtcatgg caatggcagt 120
cttaacttcc tcgccgagcc gcgcccgcct tctccacacg agctccgctg gcctacctcg 180
tcctgcact cctgcactcg tcgtcgtctt gccgaaggag cttttgtcgc catccaccat 240
gctgcgacac gccgagcgtc gtcattgttc tctcgtcgt ccgagctctg cccgagatat 300
cgggccgttc gtggagtctg agggaattgc aggagaggac cctgagcagc agcagcttgg 360
tgaaggttgt cca 373

<210> 18509
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-E5

<400> 18509

accacgcgt ccggccagga aggaggtaga cagctaccgg cagatcgtcc gcaccaagac 60
ccagaaacta gaggaggagt acgccacgaa ggtggcaaag ctgtgcttcc aggagacgga 120
ggagaagagg aggaagaaag ttgaagagct gaagacgctc gagaactcgc actacgacta 180
ccacaagatg aagctgcgga tgcagaccga aatccagggc ttgctcgagc ggatggaagc 240
cacaaagaag atgtgggtat aggctcctgt taacaatttc atgttgctgc tgcttaatgt 300
ttcgggtata gactccagct aacaactgcc tgatgctgct gctgctgctg aatacctgag 360
atttggtgtt gttcgttagg agagtgtcca atggtggaat tttttt 406

<210> 18510
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-E7

<400> 18510

aggatgaaca aactcactag gaagcttgca agaattccag atgaagtgcg gactgaaata 60
gagccatact tttttgagca ttctgctatt gttgacgaag acaaccgcaa gcttccaaaa 120
ctgccagagg gacaaagcac gtctgtagct aaatatgtga ggacaggcct gactcctcgt 180

tgggctgatac ttgatataaa tcagcatgtc aataatgtta aatacattgc gtggattctt 240
 gagagtgcac ccatctctat tcttgagaat catgagctgg cgagcattgt gctggattac 300
 aaaagggagt gtggccggga tagtgtgtg caatcacaca cctctgtgca cacggattgc 360
 aacagtgagt ctggagaaac aacc 384

<210> 18511

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-E8

<400> 18511

actccaggac gtacgtacgt acgtagatcg atccatcgat cgctagctag ctgacgacca 60
 tggcgctcct ctctctgtcc gccatcacgg ccccttcctt cacggccgcg cccgctcgcg 120
 cagtggtcag caggaggtcc ttcaccgtgc gtgcctctct cgcgaaggcc actgccaccg 180
 ccgccgtggc cgttgccgcc agcgtcctgc ttgccggcgg cggcgccatg gcccaggagg 240
 tgctgctggg cgcaggcgac ggcgggctcg tcttcgagcc cagccagttc accgtcaagg 300
 ccggcgacac catcaccttc aagaacaacg ccggcttccc gcacaacgtc gtgttcgacg 360
 aag 363

<210> 18512

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-E9

<400> 18512

acgcgtccac ccaagcgtcc ggcgtcgtcc ctgccagcgt tcgcgccgac ggcgttctctg 60
 ttctgatcat ggcgtcggcg tcggcgactc gtcgtcctcc acgaggacga cgacggcggt 120
 gaagacaata agaaccaacc aaaaccacta cgcgaagcat atatacagat tactgtcaac 180
 gtattgtaga accaaggatc tatgtatata tatatgtgtg cgtccatc atcatcggac 240
 cggaataaag ctagcaatct ctcttcttca cgatcgagag atagcgcgcg tgcgtgtaat 300
 taagtattat agatgcatgc atgatgcatg cgtgtgtgta tcgatatatc atgtgatggg 360

ttgtatatga gctagctata gctatagcta gaatcgtgtg atagtataact acaaac 416

<210> 18513
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-F1

<400> 18513

acgcgtccac tgatcggttc cggcagtcag gcaaagcctg atattcatag ctggttaaga 60

gatgatctga atttgacggt ttcatctctt agataaaaga agcagcttgc ttctctcctc 120

cgtgttcaga acgtcaggaa gcaacgcccc acatgttagg tcaggatctc aactctgcag 180

cgccgtcaag gaaggaggcg aatgagtcgc tcagcaggat cgttccgaaa tactacagtt 240

ctt 243

<210> 18514
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-F10

<400> 18514

cgtcaaggat actgtcccag agagatgccc acaagcttca aggggcacac agtgcaaadc 60

acaaggcggg tcgactagga gctgcaagaa ggtccacaag caaggaatgg cgctgggcag 120

gtccgtggac cttaccaagt tcaacggcta cacggagctg gtggcggagc tggacgagat 180

gttcgacttc aacggcgagc tgaaaggctg tagcaaggag tggatggctg tgtacaccga 240

ctacgaaggc gacatgatgc tggtcgggga cgacccttgg aatgagttct gcagcatggt 300

gcacaagatc ttctgtgtaca cgagggaaga ggtccagcgc atgaaccggg gcgccttgaa 360

ctcgaggccg gaagacagcg ggctcgccaa 390

<210> 18515
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-F4

<400> 18515

cggggtccgcc cacgcgtcca agccatcaac ctctgcagct acaggacagc gtgcttgtga 60

gtggctgtgc ttccgtaggg gtagtagggg gcttgcgttg cgttgcagtg cagaggacac 120

tgacggacgg cgaagaatcg aagatggagg cgtacgctgc tggagccaag ttcgactgct 180

tgctgttoga catggacgac actctgtacc cgttgagcct tggcatcaac ctagcatgcc 240

gcaagaacat acaggagtac atgctgaaga agctgcggat cgaggagagc cagggtcccca 300

ggatgtgect ggacctgtac agggagtatg ggaccacaat ggccggcctc aagggttttg 360

ggtacgattt cgactacgac gacttccacg cctgcg 396

<210> 18516

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-F5

<400> 18516

acggcagcag agcaagaaga gaaccagtgt gctagtgcta cagctacggc ctagctacct 60

actacggcgc agctagcagc ggcgacatg agcggcgggc gcgaggagag caccagcagc 120

aggtggccag agctggccgc cctgcgcgcg ctggcgcgcg acgcggcggc ccggggccggg 180

agggagacgg cgggggtggcg cgggcgggag cgagaggacc accgccacgg ccacggcaag 240

acggccaagg tgatgcacct gctgctctgg ggaccaagt gaggtgaagt gaagcgctgc 300

tgctgctgca gctgcctctg cctcgtggcc cgcgcgcg 338

<210> 18517

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-F6

<400> 18517

aaaaccaccg agatcgagtg caagcagact tggttgattt acaatttgcc cgggtggttg 60

taatgatatg ggatgaaacg gttgccggtt tggtgctat taaggtttg taatctgatg 120

ggcaatttca gcattctaata gccctaata tgaatctttg gccatttgct gtcc 174

<210> 18518
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-F7

 <400> 18518

 agggggtagc tactccccca caaccatgaa tccacatgct gctgaatttg tgcctggaaa 60
 aacttcgcaa caatctgatg tggctgacag agaaccagc cctgctaata ctgtggccaa 120
 ttctgatctg gatgttgtat cgcagaccac agatgaagcg agggccgaaa cgccctgccac 180
 agaaaaggca ggtcaggttg agaaagtcgt ttcaggtaaa ggaaaggaaa acaggggggaa 240
 agacatcgtg agaaactcat acaaaacaga acttgcaagg caaatTTTtac tcagtttcat 300
 tgtgaagtcg gtgcacgaca gtttaggtcc ctcccgggct gaaccagaga ggaaaccaag 360
 tggatcagat gaagctagta atgaacaga 389

<210> 18519
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-F8

 <400> 18519

 ggcgccccct tcaaactgtc tgaagatccc aatgcagagg agcgacatgc ttcttgcagg 60
 ggaaaccctg ctaccaacga gtggatcccg tcagctgaca cgggtgtacc ggcgtcagac 120
 aagccaagca gaagcgacag ctgaggggact gtatatctcc agccatgaga attcagacga 180
 gtgctttcca ccattagaat aagaaaccac actgggttgc caccatatct ttactgttct 240
 gcgtcgagat tcttgtgatt cttacgtgga acaaattaag cgtgctacga gttagacttc 300
 tgtgttctgg ctgtaaatgg caaggaatga agttctaata gtggttcagc agtc 354

<210> 18520
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-F9

<400> 18520

acccaagcgt ccgagccacc atcgaccttc aagtctcgct acgtagcagt gcaataaaaa 60
aagcagccgc aatggcgagc agcaccatgg ccctctcttc cacggccttc gccggcaagg 120
ccgtgaacgt gccgtcgteg tccgccttcg gcgaggcccg cgtgacgatg cgcaagacgg 180
cggggaaggg caagccggcg gcggcgctcc ggagcccggt gtacggcccc gaccgcgtgc 240
tgtacctggg cccactgtcc ggcgagccgc cgagctacct gacgggcgag ttcccggggc 300
actacggctg ggacacggcg gggctgtcgg cggaccggga gacgttcgcc aagaaccggg 360
agctggaggt gatccactcc cgctggggcca tgctggggcg gct 403

<210> 18521

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G1

<400> 18521

agagaagtgc aaggaagcag gcggccacca tgggtgaagg acgcacggga cagcgcgctca 60
ggctctacgt ccggggcacc atcctcggat acaagaggtc caagtcgaac cagtacgaga 120
ccacgtcgct cgttcagatc gaggggggtga acaccaagga ggacgtcgcg tggtagcgtg 180
gcaagcgcac ggcgtacatc tacaaggcta agaccaagag cagcgagacc cgctacaggt 240
gcatctgggg caaggtcacc cggccgcacg gcaactcggg cgtcgtccgc gccaaattca 300
agtccaacct cccgcctgag tccatggggc gcaaggtcag agtgttcatg 350

<210> 18522

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G10

<400> 18522

acgcgtccag tggaaactga ctggtgtcgg ggtagggcga ggtaatcatc cgtcagcgcg 60
ttgttgacaa cgacgacaac tacggttctg tacggatgga gattttggtg acatagtcgc 120
ttgattcatg atgactccac tgacttatta cacagttggt atggtctacg tggttcgcac 180

cggaatcgac aggagtactt gagaaatcta gatgagaaag ttctatagct ctgagacgta 240
atccatagta tgagtaccat ctctcagct actgctggag ccgtcatgag agttgcatca 300
gattagtatc tacaagagaa gaagctgggc ctctc 335

<210> 18523

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G12

<400> 18523

gcgtccacca gattctcaac acaacagaca acaccgctca ccgcatatat atagatgggt 60
tccgaggggc cttctccgt caccgtccac gtcaccgat tcaagagggt ccatggagtc 120
gccgagaacc cgacggagag gatcgtgctc ggtctccagc cattcatgga gacgagaggg 180
ttgcccaagg gccttgttct cgggagctgc accgtccttg aggccgccgg gcagggcgcg 240
cttggcccgc tgtatgaact gctggagtcg accgtctccg gccgggaacg tcaggagcga 300
gtaattctgc tccattttgg cgccaacagt ggttcacata ggtttgctct tgagaatcaa 360
gctgttaatg aagctacttt ccgttgcccc gatg 394

<210> 18524

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G4

<400> 18524

cgtaacgga agcgtgggtt acagtaattc ctgcacagtc tggttttaca tgggtgaacg 60
cagacccctt attcaacttt atgttgaaca actccattta tcagattttg ggtaatttta 120
cagagctcaa ggatcagctg aaacttggat tgaacttaag gtcataccag aaaatatatt 180
ttcagttcag gaatgagatt ggttcttcag ttgaagctcc agcaactatt gtggcatcag 240
tattagatgg aagcagcaat cttttaccag atagattgag acaactagct aagctaata 300
gagaacctga tgcgatgaat cttggactta atcactctgt atttggtaaa gtttaagggtg 360
ttc 363

<210> 18525
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G5

<400> 18525

agcaggtgaa gccacggacg gcataactat ttgtacactc ggtttgcata agaaccgact 60
gcacatctgc atttgcaccg tcggttgcaa gttgtgatag actcggcggg aagttttatg 120
taatataaaa taaagtatag gtgaagtaca tgtttttagt ataaattttt atcctgtaat 180
tttatagtta ttgaatttta tgact 205

<210> 18526
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G6

<400> 18526

gtggacaagg tggagctgct ctactccaag ttcgtgtcgc tgggtgcgctc cgaccccatc 60
atccagacgc tgctcccat gtcgccaag ggcgagatct gcgacgtcaa cggcgtctgc 120
gtggacgcca ccgaggacga gctcttcgc ctcaccacca aggaggggaa gctcaccgtg 180
gagcgcgaga aggtgaagat cgagacgcag cccttctccc ccgtggtgca gttcgagcag 240
gaccccgctgc agatcctgga cgcgctgctc ccgctctacc tcaacagcca gatcctccgt 300
gccctgcagg agtcgctcgc cagcgagctc gccgcccga tgagcgccat gagcagcgcc 360
accgacaaag cca 373

<210> 18527
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G7

<400> 18527

acggacgcgt gggcggacgc gtgggtcaga atgaagcaag tgttgctggg acacgctaca 60

acgtgcctct gatcaattca cttgtttttt atgttggcat ccaagctgtg caacaactgc 120
aactgaacaa ggctaatacg tctgcatcag taccagatta accatatatc tccgatggac 180
attttccaga ttggaacagc taccgatata ttcaggagtc ttataacaag tttggatata 240
gagggccgct acctttctgtt gaatgcaatc gctaaccaac tgcgctatcc aaatagccat 300
acacactact actccttcat cactctgtat ctattttccg aggctacca agaaattacc 360
caggagcaaa tcac 374

<210> 18528
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G9

<400> 18528

acggaagcgt gggctacggg atcgaagggg ttgtaccttc agaactactg ccacctgaag 60
taaatgccaa gttttcttct aaaccgcag agaaggtaa gcggacgaga aaggaagatt 120
caaaaagcgt gtcagctcat cagcccagag agcatcaggt tgctgcgaca cccgaaaccg 180
acggcgggtg tgaqccggaa gaaggcgaag gcgcggcgcc aatggattcc gacaacggcg 240
cgggtggggga tagccagaaa cggagcccgg gggagggtctc tggccctgaa agcgggcagt 300
gcgagcctga ggcggatggc gatgataacg tgaggacgga aactaccagt agggatgctc 360
gtgccggaga gatgaaatga aacagtggca tgaag 395

<210> 18529
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H1

<400> 18529

acgcgtccgc cagcgtccgg aagaatagga agttcactga gactgttgag cttcagatta 60
gtctgaagaa ttatgatcca caaaaggaca agcgtttcag tggctctgtt aagttgcctc 120
acatccctcg tccaaagatg aagggtgtgca tgcttggtga tgcccagcac gttgaggagg 180
ctgagaagat gggacttgac tacatggatg ttgaggccct caagaaaatg aacaagaaca 240

agaagcttgt taagaagctt gccaagaagt accatgcttt tttggcatca gagaccatca 300
tcaagcaaat tcccgtctc cttggctctg gtctcaacaa ggcattgcaag tccccact 359

<210> 18530
<211> 108
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H10

<400> 18530

cgagcatcgt ggatacatgc aattcctctg cacatggatg gattgggatg taacttggaa 60
ctgttaattt tttttacttt gatttggatg catcatgacc ccccttc 108

<210> 18531
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H11

<400> 18531

gcgccacccc tagcgtccga aggcaggaca aatgacatct gggcaagttg ttttagttac 60
agcagctgct ggtggaacag gacagttcgc agttcagctg gcgagattag caggcaacaa 120
ggttgttgcc acatgtggag gtgaaagtaa agctgaactt ctggcttcct taggagttga 180
tcgtgttata aattacagaa atgaacgagt caaagatgtt ctgaagaaag agtttccaag 240
aggtgtagat atcatatatg aatctgtatg tggggaaatg tttgacttgt gcgtgaacgc 300
acttgcagtc catgggcacg tcaactgtaac tggatatgac tcccagtacc aaggagagga 360
tggctg 366

<210> 18532
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H12

<400> 18532

cactggggagc aacgatcggc cgttcggcgc gaccgggtgc aagaggcgcc aagacatcgg 60

gatgatcagc gccgtgcccc ggactaaggc tctcgacatg aacaccgccg acgacgatat 120
 cgtgcgcctc acgcgcgacg tcgttccccg catgatcgtc accggaatgg aggtcgccga 180
 gattgacggc gccccagga tgggcccgcac atttggcgcc atgatgatct ccggccagaa 240
 ggcgggcgac ctggcgctca aagccctgcg caggcccaac gccgtggacg ggaccatgtc 300
 gccgccg 307

<210> 18533
 <211> 81
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H2

<400> 18533

acgcgtcaac ggaagcgtgg ggtttttgta ataccaaata atcagctggt ttattttaat 60
 tgagaaagtc gtggttctgt t 81

<210> 18534
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H3

<400> 18534

accacgcgt ccggtgaaca ccagccgtat tgtcccgacc ccgaccgatc ctgcctgct 60
 gcagccatgg cgacctcgc gccgctctcc accgccgcca atcccacca gctctaccgg 120
 tcccgcgctt tgctgggcaa gccggtgaag gggcttggcc tgagcatggg ccgcgagcgc 180
 gccagcgga gcattgtgtg ccaggcggcg agcagcatct ccgccgaccg cgtccccgac 240
 atggagaagc ggaagctgat gaacctcctc ctctcggcg ccctctcgtt gccactgtc 300
 ggcatggtcg tcccctacgg cgccttcttc gtcctcgccg gtcctgggaa cgcgcgggc 360
 gggacctacg cc 372

<210> 18535
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H4

<400> 18535

cgcgcaacac ggggtgtgccg gctactttca ccggccgcaa gtccagtatt tgcttgatcc 60
ttgacgagcg ggagagagag agagaggaag acgagaggca gcgaaggaaa cagtagttct 120
tcagttaggc aggagggcac aggaggagga agatggcgtc gaagaggatc cagaaggagc 180
tcaaggatct tcagaaggac cctcccacct cgtgcagtgc aggtcctgtt ggtgaagata 240
tattccactg gcaggcaaca ataatgggtc catctgatag cccatattct ggtggagttt 300
tcctagttac aatccatttt cctcccgatt atcctttcaa accaccaaag gtggcattcc 360
cgcac 365

<210> 18536

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H5

<400> 18536

acggacgcgt gggcgagcgc gtgggttcgc cgcaccagcg ccagcccgcg ccgtgggtcag 60
aaggaggtcc ttcaccgtgc gcgcctctct ccgcaaggcc accggcaccg ccgccgtggc 120
aatggctgcc agcgccctgc ttgccggcgg tgccatggcc caggaggtgc tgctgggcgc 180
aggcgacggc gggctcgtct tcgagcccag ccagttcacc gtcaaggccg gcgacaccat 240
cacattcaag aacaacgccg gcttcccga caacgtcgtc ttcgacgaag acgaggtgcc 300
gagcggcgtc gacgccacca agatctcgca ggaggagtac ctcaacgcgc caggcc 356

<210> 18537

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H6

<400> 18537

acccacgcgt ccgcccgtt cgctcgcggc ggctgtctcg gcgtctctgg catttacgtc 60
ctcctccgcg ttgcggggtt catctttggg aatcgagttc agctacagta taatgacaac 120

acggagatcc cgtggtatgc agattagggc tggaaaggct gccctctgca tgaccaagag 180
 gtcaagggtct aggaagtcac ttgcccgtag acatgggtttc cgcaggcgga tgcggactac 240
 ttctggaagg aaggtactga agcgcaggcg cgccaaaggc aggaagggttc tttgcacaag 300
 gacaaactca aacagtggga agaaaagaat gttctaatta cactgcaatt tgatgtgctc 360
 gcaactgtaa gtgtaatgtc tacttgcaat 390

<210> 18538
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H7

<400> 18538

aagtcacgtc tcccagatct aactcccaaa gactcacgaa tcccagagag cctccatggc 60
 gacgcaccgc cactgcctcc cactcctcct cgtggccgcc gccctcgccc tcgccgccgt 120
 ccctgctcgc gcggcgctgg gcggcgggcg cggcccgtg ctgggcgggt ggaacccgat 180
 ccctgacgtg agcgactctc acatccagga gctaggcggg tgggcgctgg ggagggcgaa 240
 gcatcaggat ctggcgctcg acgggctgcg gttccgccg 279

<210> 18539
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H8

<400> 18539

acccacgaat caacgcgcgc agcacgggct tgcctgctag tcccacaagc cgccggcatc 60
 ggcgcacggg gagcagaggc agagcagcgc ttgccgcagc aatccggacg acgctccagc 120
 ggagacggc agcagggtccg gccaccttcc gcgcctcgcc ccggccagtg gcgttcacgc 180
 cttcggcctt ccgccatgaa ggccgcgcgc gtctctcctg tcccgccgcc gtcggccgtg 240
 acacttggtg cagtgggtggc gcggcgcgcg ctggtgccgg cggccctgcg cggcaacgcg 300
 cggcggtggc cggcgctggg ggcgtctgcc gcggccgat 339

<210> 18540

<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A1

<400> 18540

agcatgccac tattgaagaa atcgaagcgg agacatccct catcgaagac caagctaaag 60
aagagatgga gaaagcactc taaacagtcc aagccaactt caacactgtg aggacaggac 120
gtgcaaaccg ggccatgctt gaccggattg aggttgagta ctacggaact ccagtaaact 180
tgaagagcat ttcacagata agcactccag atgcaacttc tcgtcttatt caaccatatg 240
actaagtcaa gccacaagct tattgagaat actatagttg ctgcaaactc tgggtgtgaca 300
ccaagcaatg atggacaagt aatacgagtg actgtcccat cattgacatc tgatcgcaga 360
aat 363

<210> 18541
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A10

<400> 18541

agggtcaaca ttcggtggca tcactacaaa gataagcaac gtcagcagcc agcttccaac 60
aattaaccac gtctctctcat cgatcagaag gaagaaatcc atggatacca tcattctttc 120
gctcgttgca tctgtctgca cgtttctcat ctcatctac tggctgtcga agtaggttta 180
ccagagcaaa gatattacgt acagtgttgt aagcttggga ccacactacc agtaccggta 240
gtccggtaca gatagtcttc attggtgttt gtacaatatt attggttgat tgaatgctgt 300
tacgatta 308

<210> 18542
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A11

<400> 18542

agtaccactc gagtgtgaag cgaggtgata ttgttggcat atgtggttat ccaggaaaaa 60
 gcaaccgtgg ggagcttagc ctgttcccga agaaatttgt cgtgctctct ccatgtcttc 120
 atatgatgcc tcgacagaaa ggtgaaggaa gtccggtgcc tgtatcgtgg actccaggaa 180
 tgggtaggaa tatcgaaaat tatgttttga gggatcagga aactcgggat cgtcagagat 240
 atcttgatat aatggtaaac catgaagtga ggcatatctt caagacacga tctaaagttg 300
 tctcatttat ccggaagttt cttgatgacc gcgaattttt ggaggtggag actccgatga 360
 tgaacatgat tgctggtgga gcagctgcaa ggccttttat tacaca 406

<210> 18543

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A12

<400> 18543

agcccacgcg tccgcggatc ccagtacaac aaccatggca atgtgggtccg ttggacggcg 60
 cctctgtcgc tggccctggt taaccccaac ttcaacgacg gcaaggctct cttcgtccccg 120
 tgggtggaga ccgacttcag gaccggcgag gaccctggtt ggaaggcatg aggatgatcc 180
 gaaaccagcg gtgctcattg ctacacatg agacctacgt atgcctccgt tccttgatgat 240
 gaggaatat gcttgcttgc gttctccttg ggcgttgctc caacaaattc acttgctttc 300
 g 301

<210> 18544

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A2

<400> 18544

acgcgtccac ccaagcgtcc ggacctatca ctctctgctc gcgcactctc acctgcccgc 60
 gccgtattcg accgccgcca agatgaacaa ggagaggctc atgaagatgg ccggcgccgt 120
 ccgcaccggc ggcaagggca ccatgcgcag gaagaagaag gctgtacaca agacggtcac 180
 cacggacgac aagaggctgc agggcactct caagagagta ggggtcaaca ccacccctgc 240

aatcgaggag gtgaacatat tcaaggacga tctcgtcatc cagttcttga accccaaagt 300
gcaagcttcc atcgcggaac acacatgggt ggtcagtga tctccacaga cgaaaaagct 360
acaggatgtt ctccctggta tcaatttaaca gcttggccct gacaacat 408

<210> 18545
<211> 369
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-030-Q1-E1-A3

<400> 18545

gtaccgagaa gtcttttaggt ggggtcaaag atggtgtcgc tgaagttgca naagcgcctt 60
gccgcgagct acctcaagtg tgggaaaggc aaggtgtggc ttgacccaaa tgaagttagt 120
gagatctcca tggcaaactc ccgccagaat atccggaagt tggttaagga tgggtttatc 180
atcaagaagc ctcataagat cactctaga tcccgtgcaa gaagggcaca tgacgccaag 240
caaaagggac gccactcagg atatggtaag cgtangggta ccagggatgc taggctacc 300
accaaggttc tgtggatgaa gaggatgcgt gtgctgaggc gccttctccg caagtatcgt 360
gagggcaag 369

<210> 18546
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A4

<400> 18546

cgggccggcc cagcgtcca ccaagcgtc cgcaaccatc taccagcgac tcagcgagcg 60
agagcagcac acacgcagct agctaggagc agcagcagag cagcggcgat ggcggcctcc 120
atgatctcct cgtcagctct ggcgggtggc cctcagggcc tgccgcccct cggcgcgcgc 180
gcctcctcct tcgcgctcgt ctgctccaag aagaagatca agaccgacat gccctacggg 240
attgggggtg gcctgaccgt cgacgtcgac gccaacggga gaaagggcaa gggcaagggc 300
gtgtaccagt tcgtcgacaa gtacggcgcg aacgtcgacg gatacagccc aatctacaac 360
gaggatgact ggtctccac cggcgacgtc tacgtcgggtg gaaccactgg gcttctgac 420

tgggccgtca tctcgttg g

441

<210> 18547

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A5

<400> 18547

acgcgtccac ggacgcgtgg gctccctctc ctctgccgcc gtcaccgcc ctcccttcgc 60
cgcaccagcg ccagcccgcg ccgtgggtcag aaggaggtcc ttcaccgtgc gcgcctctct 120
ccgcaaggcc accggcaccg ccgccgtggc aatgggtgcc agcgccctgc ttgccggcgg 180
tgccatggcg caggaggtgc tgctggggcg aggcgacggc gggctcgtct tcgagcccag 240
ccagttcacc gtcaaggccg gcgacaccat cacattcaag aacaacgccg gcttcccgcg 300
caacgtcgtc ttcgacgaag acgaggtgcc gagcggcgtc gacgccacca agatctcgca 360
ggaggagtac ctcaacgcgc caggcgagac ctactccg 398

<210> 18548

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A6

<400> 18548

acccacgcgt ccgcccacgc gtccgcccac gcgtccgcgg acgcgtgggg gcagcgctcg 60
gaggtggccc tctgtcgggt ggactgggtg acacatccgc gcccatggcc aaccgcggtg 120
ccgcggcccg caagctcact gtcacggaga ccttctccaa cctcagggag catggcaagg 180
tgcgtagcgt tgacacctca cgtccgtgct tcgcttcgtc gttacccttg ggggccaatt 240
cacgcgagca cccacatttc tcttggtggt cctgattgag tggcatgggt ggattgctgg 300
cgccatgggt gccgataccc aatggtggtc ccggttggtt gcaggggaata ccgaattttg 360
gtcacattta gttgcaagga aatggattac gtctttggaa caatatgtgt attc 414

<210> 18549

<211> 419

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-A7

 <400> 18549

 cacgagtcca cggacgcgtg ggcggacgcg tgggcggacg cgtgggtgag cttgcccgtc 60
 tgcagctgaa ggccctctg caccgccatt cccagcgtg cgagtccgtc catggggaag 120
 gtgtgacctgc tcaccgtcga cgagagcatc ctctgtggcgt tggccctcgt cgccgtcgcc 180
 gccttgatgc tcgtcgccct cttgctgccc ccgccgcgcc gccgcggctt cttctgagag 240
 cacggccacg ggccatggcc gggcgtgccg ttggtccggt tcggagtcgt ggtgagtgat 300
 cggttcagag tcgtgtgac ccgccagtag tgccatgcct cgtcgatctg gaactgcttg 360
 cgtgtttgta cgccgggtag catctgttgc tctgtaaacc atcatgcata tgacagttc 419

<210> 18550
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-A8

 <400> 18550

 acccacgagt ccacggacgc gtgggcggac gcgtgggcgg acgcgtgggt gagcttgccc 60
 gcttgacagt gaaggccct ctgcaccgcc attccccagg ctgcgagtcg gtccatgggg 120
 aaggtgtgcc tgctcaccgt cgacgagagc atcctcgtgg cattggccct cgtctccgtc 180
 gccgccttga tgctcgtcgc cctcttgctg ccccgccgc gccgcgcgg cttcttctga 240
 gagcacggcc acggggccatg gccgggcgtg ccgttggtcc ggttcggagt cttggtgagt 300
 gatcggttca gactcgtgtg gacacaccac tagtgccatg cctcgtcgat ctggaactgc 360
 ctgcgtgttt ggacaccggg tagcatctgt tgct 394

<210> 18551
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-B1

 <400> 18551

acgcgtccag gaaaggggaa ttcctacaat tgcttcaaaa ttccaaccga acccaataaa 60
aatatgggca tataaggaat tccccttcgc caaattatta caaaaaaccc ttgttaattt 120
ggaattcaca tctgcaacac acctgcgcaa gaggcagccc caaacgacaa gaatttttca 180
agaaaaagg gcttttccag gcgcccgtaca tcgaagatcc taacacggga gtccagatgt 240
ttgaaagcgc tgaaatcata gactacctga aggcaacata tgccctgtac ccaagctcgt 300
agtgatgtat cagaàatggt cattgtaatg ttgctgttag attcagttct tcccggtaat 360
aaaaggaaaa gaaatagtgg gcc 383

<210> 18552

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-030-Q1-E1-B10

<400> 18552

agcgtcggc cgcgagagt cttcatcgga catgggcct catcgtcgt gctcccagcc 60
ctatgtacga cgctcccc cagcttcag cacggcgac ctctcatgg ccgcacctct 120
ccctgctcgg catcaacgtc gaccgtgcct tgccaacggg gctcaccat gttggccatg 180
cctcccaact ccgttcttgg atcggtgag ctcttaggca ccacctcgt gccgctctag 240
atgttgtgtc tggccctccg tgatgttcac ccagtgcga gcaacagctc cgcgaaactag 300
tctccacat gtcgttaggg tctgctacac ctccctgtc gccgtggaga ccgtgtctcc 360
ctgtccaca gtgcccttca ncatctgtca tcgcaacaac ag 402

<210> 18553

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B11

<400> 18553

cccacgcgtc cgcccacgcg tccgtttttt ttttttttta ctataaagct ccctttgggt 60
atctatgctt cgtgttgatg agcaaagtgt attgtgaaac agccctatct atgtactagt 120

agaacaaacc atcttgtacg aatggaatta agcaaagaaa ggaggggaaa aatgattcaa 180
ggaaataact ttggtcagct agatgctatg agccagttag ggccggtgga tcaggccacc 240
atctgctcca gctccggcca ctgcgcaaat atgtcgccgg cgtgaccgtc cttgacaaga 300
gagctgaccc actagacgtc cggctcggct gagggcagtg gggatcgcg gcggaacgcg 360
aacgattcgg acattcggaa cttgtgcagc tcgtcaccct ggac 404

<210> 18554
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-030-Q1-E1-B12

<400> 18554

agcccacgcg tccgcggacg cgtgggtggt cctggtattg tgaattggag tgaaggagga 60
acaaagatgg tagctcatgt tcctttttac ctttttagccc agcaaaaagg tccaccgtct 120
cataatTTTT catttgccga cctcctccca acagaatgaa gaaaatatct gcatgagtgc 180
attggtgcag gcatgatttc tctagcagaa ggccatataa cgattttggt ttgaagatcc 240
aagttccttt ttaaaaaagg ggctggtctg aacattcagg cttatttctc tagcataata 300
ctcataaaga gtctgtact tttaggtctt gttcggttat tcctataata catggattga 360
tggaattaan anaaatttag aagaactttg acttgc 396

<210> 18555
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B2

<400> 18555

acccaagcgt ccgcaaggat gaaagtgatg ggcacaaaga tttggaccaa cagaagaata 60
atgccaccaa taaagacaaa cctgctgctg agccgataat tggtccaatt gtactgagga 120
tgtctgattt tgatcacaaa gcattgctag aggaatggat agccactaga gctttcagag 180
ataattgcat tcctcaggat catcggaac ttataaacia ccttaagctt attcaggact 240
acctttgttc ttttgagtca cagggtattga ccattgttga tatctcagca aattcgtttc 300

ctcaaacatt agattggctt cacagctatc ttcttcagtg catcgagcga ggtcttttgg 360
ctgcgtgttt agaaagctgc aatcaaggtc aatgacactc ttggatgtaa cctgtccaac 420
cacacctc 428

<210> 18556
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B3

<400> 18556

gcgctccaaag gaggaggtgg agaccaaggt cacggcctgg cagacggccg aggtcgccaa 60
gatcaacaac cgcttcaaga gggaggatgt ggtcatcaac ggctgggaga ccgatcaggt 120
ggagaaggcc tccgcgtggc tcaagaagat cgagaggaag ctggacgagc aacgcgccaa 180
ggcgctggag aagacgcaga acgacatcgc caaggcgcg cgcaaggcgg aggacaagcg 240
ggcgctggcg gatgccaagc ggggcctcaa gctggccaag gtgctggagc tcgccaactt 300
catgaaggcc gtcggcaggg tgcccaccaa gcgctccttc ttctagccag ccgactaccg 360
ctaccacctc cgtctctccc tgctcgctg tgatcgatgt acgctcgccg ctgca 415

<210> 18557
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B4

<400> 18557

cacgcgtcca cccaagcttc tggtcggagg tggaggcaac cccaaaacct caaggccatg 60
aacaatgggc caaaccttg gaacttttcc ttctccaagc cccggcccct gcaaaacacc 120
tgctcaaga cctgtggccg gcagccggac aaagtcaaag cagcgcagga cacgctgctg 180
ctgcgcgcca aggccaactc cctggcgag ctcggaagt acacctccga cggcgaggcc 240
gccgaggcca aggagggaat gttcgtcaag aactacagct actaattaat cacccgcca 300
tcatccggga taccgccgcc cctccgagag atacgtgtgt actgatcatg gttaagcacg 360
tactccgata cattcccatc ccatgaagcc atgataatga tgatatg 407

<210> 18558
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B5

<400> 18558

acaagccccg cgtgcccatc atcgtcaccg gcaacgactt ctccacgctg tacgcgcgcg 60
tcatccgcga cgcccgcatg gagaagttct actgggcgcc caccgcgag gaccgcatct 120
gcgctctgcac gggcatcttc cgcaccgacg gcgtcgacta ggagcacgtc gtccatctgg 180
tcgacacett ccctggccag tccatcgact tcttcggcgc gctgcgtgcc cgggtctacg 240
acgacgaggt ccgacggtgg gtgagcgaga cgggcgtcga gaacatcgcc aggaagctcg 300
tcaactccaa ggagggcccc cccacgttcg agcagcccaa gataacgacg gagaagctct 360
tggagtacgg acacatgctg gtggctgagc aggagaacct caag 404

<210> 18559
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B7

<400> 18559

agcaccatga ggctctccag gaggcccttc ctggtgacaa tggttgcttc aatgttaaga 60
atgttgctgt gaaggatctg aagcgtgggt atgtggcctc caactccaag gatgaccctg 120
ccaaggaggc tgctagcttc acgtcccagg tcatcatcat gaaccaccct gggcagattg 180
gcaacggcta tgccccagtg ctggactgcc acacctcgca cattgctgtc aagtttgccg 240
agctcattac caagattgat aggcggtctg gcaaagagct tgagaaggag cccaaattcc 300
tcaagaatgg tgatgctggt atggtgaaga tggttcccac taagcccatg gtagtggaga 360
ccttttctga atatcctcct cttggctcgt ttgctgtccg tgacat 406

<210> 18560
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B8

<400> 18560

aaagaaagaa aaaatcgaga ggacgccagg gccgattctc tgcgtgactt ggggcgtcgt 60
cgccgagttt tctccggccg agggcgggcg gaccggacaa ccagcgtgag cgcgaccggc 120
gacatgactc gcggcaacca gcgtgaccgc gaccgtgagc gcgcggcggc gcggaagccc 180
aacgccaaga actcccagga cgggctcacc ccggagcagc gccgcgagag ggacaagaaa 240
gctctggagg agaaggcggc caagaaggcg cagcaggcag cggccggcgg caccgggtacc 300
tccacggaca acaacaagaa caaggcaggt ggcaagaagt aggaggcagt ggcgcgccgc 360
cacctctgta cgattaatcg atgccttgag cttgtaactt gttcgcat 408

<210> 18561

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C1

<400> 18561

acgcgtccac accaacgttg atgatgctct tctcagtgga ggtcagaaac aacgtgttgc 60
tattgccagg gcccttctga gggaccatc tatcttactg cttgatgaag ccactagtgc 120
gcttgatgct gagagtgaac attatgtcaa gagcgatc acaaaagtta gtcgagattc 180
aaaggctaaa agaactgtgg taatcatagc acacaggcta tctacaattc aaacagctga 240
tagaattatt gtgatgaaa atggtaatat tgtggaggat ggtaaacaca ttgatcttat 300
tgagaagggt ggtctatatt caagattagc caggcgacaa aatgacgatc tcaagtagcc 360
ctggatcaca gaatgtggtt tagtgcacgc cttcttttta aatggaatgg c 411

<210> 18562

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C11

<400> 18562

aggcgccgt cgccctggct tgcaccttcg acggtggatt gatgaccaag gccgccatat 60

tcggcacggc gaggaggttt gcagggccag gaaggcggta ggtggatgga gctggtcacc 120
ctagagcaat gccatgctaa tcatgtgtag caaagcggtg gttggatgga tgcctggaag 180
tgccctaagc agtccttttt gtagcaatgc actgcagagg acagaatgcc ttgtctagtt 240
gctcagtcta gacatcatcc tcatgttgca gataaggtgg tgtgctctta ttacagatca 300
gtatcagttg agaaaaatag atccctgcac atcccgagaa aggaaatgga cgacaaagat 360
ccagcgacac agagaagtgt acgtaagcag accgggcatg cttgtgc 407

<210> 18563

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C12

<400> 18563

agcgagcgag atgaggtgca actgcacgca tctatcgatg agcatcatca gcagcggcga 60
tggggggctc catgatctcc tcgtcagctc tggctgtggc gcctcagggc ctgacgctcc 120
tcgggtgccg cgctcgggtc cttctccgtc gtctgtctca agaagaagat caagaccgac 180
aagccctacg ggattggggg tggcctgacc gtcgacgtcg acgccaatgg gagaaatggc 240
aagggaagg gcgtgtacca tttcgtcgac aagtacgggt cgaacttcta cggatacagc 300
ccaatctaca acgaagataa ctggtctccc 330

<210> 18564

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C2

<400> 18564

acgcgtccag tacatgtgtt gtgttgtgct gtgctgcgag aagaaggaga agaggaggaa 60
gaagagcagg tgctgagaag cctgccggcg cgcgttacga caagcatata tgggggagat 120
caccaatgtc atggagtacc aggccatcgc gaagcagaag cttccgaaga tggcctacga 180
ctactacgcy tccggcgccg aggacgagtg gacgctgcag gagaacaggg aggccttctc 240
caggatcttg ttccgtccgc gcatactgat cgacgtgtcc aagatcgaca tgaccaccac 300

cgtgctgggg ttcaagatct ccatgcccacat catggctcgcc cccactgcta tgcagaagat 360
 ggctcaccca gatgggggaga acgccactgc gcgcgcggcg gctgcggcag gcaccataat 420
 gacactgt 428

<210> 18565
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C3

<400> 18565

acgctgccag acgaacaact gagaagagct gcgcctcgcc ctgcgcctgc gggaaaggga 60
 aaacatggtg gggaaaaaaa ggggtgttat ctccccgctg gaccatctcg ctgggctgct 120
 ggaggtgcgc gtggtgaggg gagtggacct cgccatccgc gacctccgat ccagcgaccc 180
 ctacgtcgtc cttcgcatcg gcaaggcgca gaaagtgaag acgcgagtgg tcaagaagag 240
 catcaatccg gaatggaacg aaaaactcac cctctctatt gaagaccctg ccgttcttat 300
 tagactggaa gtatttgaca aggacacttt cgttgatgat gcaatgggta acgcggagct 360
 ggacatccgc ccgttagtcg agattgtgaa gatgaagctc cagggtgtcg ctgacaaaa 419

<210> 18566
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C5

<400> 18566

acccacgagt ccacgacacg acaccaagtc gaggagctcg agggcaccaa tcatggccgg 60
 cgtgaactcc agcgtcgctg ggctcaagcc cgccgcggca gtgcgcgagg ccgccgccgc 120
 ctcatcgccg gcgaagcggg tgcagctggc cgcgcccag ggcgcgcgcg ccgctctgct 180
 cggcctggcg gccgtcttcg ccgtcacggc caccaccggg tcggccaagg ccacgatctt 240
 cgatgagtac ctcgagaaga gcaaggccaa caaggagctg aacgacaaga agaggctggc 300
 caccagtggc gccaaacttg gcgcgccta caccgtggag ttccggcagct gccagttccc 360
 ctacaacttc actgggtgcc aggacctcgc caagcagaag aaagtccctt tcatcagcga 420

<210> 18567
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C6

<400> 18567

```
gtgttgttgt tttgtttgtg ttgtgtgtgt gtttgttttt ttttgttgtt tttttttttt 60
ttttttgttt ttgttttgtg tgttttgttt ttgttttttt ttttgttttt gtttttttgtt 120
ttttttgtgt tgttgtttgt ttttgttttt ttgtttttgt tgtttttttt ttttttgttt 180
tttgtttttt gttttttttt tgtttttttt ttgttttttt tttttttttt tgtttttttt 240
tttttttgtt tttttttttt t 261
```

<210> 18568
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C7

<400> 18568

```
agacaggagg aagggcaagc gcagcgccgc cgtggcttcc gtcgacgacg ctaacgaggc 60
catggcttcg gcggaggcgc tctgtgtgga gcatcaggac ccaccgctgg cttcagcgga 120
gggaaccgat gaggccaagg cggccaacgg ggaggcgacg gcggtggtgg agccggacga 180
gccgaggcgg gactcgtcgc cggagcgggg cgacggggat gccgcgcggc tgaagctcct 240
caacggcatt ctcatccgca cggcctccga ggagcgggag cgggtggcgg cgcttgaggc 300
gcggctcgtt gaactctccg ccgacgccgc cgtgctcgcg gacggggaga gcgcggtact 360
gctcgcggcc ttctctgccc 380
```

<210> 18569
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C8

<400> 18569

agataaaaaca ggatattctg ttccataatt ctgaaataga gttctttttt ttagtattac 60
 tcctcattag gatgtatata ttaatcatcc tattttaata tatattaatc atcctatttt 120
 aattagggtc taatccaatt agtagtaagt attttctttt ttatttaata gtctctgact 180
 atcattaaat aaagggtaga gcaattcttt ttctagaga ttctagagaa agtgagacaa 240
 agtgaagcga aagagttttc ttgtataag aattagggtc atatcatatc taaatagaag 300
 ggaaatcaaa aagaaggga gtggggatta cattggatga atccttaagg aagacatatc 360
 ac 362

<210> 18570

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C9

<400> 18570

cggacgcgtg ggttttctgt gaaaacaagg ctgatgtcga ctacatccat gaggaccttc 60
 ttctaaaggg agtggaggct gttgctatcc atggaggaaa agatcaagag gagagacaga 120
 acgcaattga ctctttcaag actggttaga aggatgttct agtggctact gatgttgcac 180
 cgaaggggtc tgattttcct gacattcagc atgtcattaa ctatgacatg cccgccgaaa 240
 tagagaacta tgtccaccga atcggtcgaa ctggtcgatg tgggaagact ggcatagcaa 300
 ctaccttcat caacaagaac caaactgaga ccacgcttct cgatctcaag catctgctga 360
 aggaggcaaa gcagaggatt ccaccggtgt tggcggagct caacga 406

<210> 18571

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-D1

<400> 18571

cgcgtccatt gcaagcaagt caggaggttg ctgctgcaa ttctttctcc atgtgcttcg 60
 cacaagatgg ccatggtaga atcaattttg gggacactgg aagctcagat cagcaggaaa 120
 ccccgtaaaa catgtataaa caaatccat actacaacat aagcatcact ggtgctacgt 180

ggggagtaaa tccattcaca ccaagttcaa cgctattggt gactctggca cctctttcac 240
agctctgtct gatccgatgt aactcacaat cactagcagc ttcaactcac aagtcacagga 300
taagccaagc cagcttgact cttctctgcc ctttgaattt tgctactcta taagtccaaa 360
ggcttctacc aatcctccga acataagctt cacggcggaa ggtggaagcg tgtttctgt 420
caatgatcca at 432

<210> 18572

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-030-Q1-E1-D10

<400> 18572

agctgttcca aatgcctaca ccttagcaat caacggcaaa aaaaccattc attgtcgttc 60
acacaagcct tgtggagctg cttactccaa gggaattgca ggctgttttg gctcatgagc 120
tgggtcacct caagtgcgat catggtgttt ggctcacttt tgccaatata ctcaaatgg 180
gagcatacac tgtccctggt tttggcatgg ttgctggctt cctggaagag cagctataca 240
gatggctacg agctgcagag ctgacttgtg acagggcagc tcttcttgtg gtgcaagatc 300
cgaaggtagt catctctgtt ctgatgaaat tggccggagg atgcncatct cttgccgaca 360
agctaaatgt ggatgccttc ctggagcaag ctcgttcgta cgac 404

<210> 18573

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-D11

<400> 18573

agacagcctt acctgatcct tgacaattct gtcctctgc cgccgccgcc gccgccgccg 60
cccgccgctc gtcgctgcgc ttcggtacct gcgaagcaag gccccgcctc ccgtgtacct 120
gccgccgaag aagggagagg agcagatgaa agcggggagg aagaacctgc gccgggcgtg 180
cgacgagggc gccgccgtca cgctcgccga gggagagagc atcatgcagg tcctcacgct 240

gcgcggtccc aacgtcatcg aggtgatgga cggcgtgggc gtcaggtccc tggccttggt 300
 ccccgccaag ttccagaaga gcttctggat caagaacggg agtttcgtgg tcgtggatgc 360
 cagcgggagg gaccaggcgc tggaatcggg gagcaaga 398

<210> 18574

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-030-Q1-E1-D12

<400> 18574

aggtaacctg aagctttaag aaaacaaagt gctcccgga gactccaagc tgcagctacc 60.
 ggccttcttc tccccattc caattccgag aacaggggcg gcggagtcaa ccaggtagcg 120
 tgtgctcggt agcgaggctg gcgtttgtgc ttgactggc catagccgcc tcatcaatta 180
 cggttgcgga gagcagagat ttaatatct ttgtcaggg cagcttgct gatgcaacca 240
 aggatcgtc aggtctagct gcaaccagt gaaagttgtg tcagttatgc gagcagtact 300
 catccgaggc gtcctctat ctacacana acgagacca gactgagatt cttagcattc 360
 tacnacatga atgtgccagc cttgnccac tcaagcagca gtgcatcac 409

<210> 18575

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-D3

<400> 18575

acgcgtccaa cccagccaag cccgcacgac acgacacca gtcgaggagc tcgagagggc 60
 accaataatg gccggcgtga actccagcgt cgtcgggctc aagcccgcg cggcagtgcc 120
 gcaggccgcc gccgcctcat cgcggcgga gcgggtgcag ctggccgcgc ccgatggccg 180
 ccgcgccgct ctgctcgcc tggcgggcgt cttcgccgtc acggccacca ccgggtcgcc 240
 caaggccacg atcttcgatg agtacctcaa gtgcggctcc aacgttttct ggaagtgggtg 300
 aagcagctag cagcagcgtc tgatgggaat ggaggagatc atcacctgtc ttgtcgacct 360
 tagatatgtc caaactgcag ggaaattaaa tcttcattgt taattgtg 408

<210> 18576
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-D4

<400> 18576

cacgctcca cggaagcgtg gggggaaccc accatatgtc atgatgtgat tgatgtaggc 60
 tgggtccacat tagcagatct aactgttgac gaagggaaac ttcttggctg ctcatataac 120
 caaaattgtg tcggtgtgtg ggttgtggat ttgatgagaa atgagcctta tgttgatagt 180
 agtgctggat cacacttaaa tggaagtata aataggccaa ttcaatcaga tgatagcatg 240
 tcatcagtgt ttgggaggct atcgatttcc agaagcccag ccaatgaaat tggatcggat 300
 actctgcttg gatgctcaat gtctggttca aaagaaagtc ctgtctcaac ttctgcatca 360
 atgaggggat tgtcaaagcc acctggaaaa ggggacctcc ggctctcaag atctatttct 420
 acacctcttc t 431

<210> 18577
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-D5

<400> 18577

acccacgagt ccaccacgc gtccgccac gcgtccgggt gttcgccggc gacgtgcaga 60
 gcagggaggc aggggtgcggc gcggcgcca ccagtggctg ggccggcgcc accaccaacg 120
 gcgtcctgtc gctgctctac cgccaggga tggagatcga cgcgctggtg cggctcgaga 180
 ccgagaggat gcgtgcgggg ctgcaggagg ctgcggcgag gcacgcgcgc gcggtggcgg 240
 cggccgtgca gcgcgccgcg gcggggcggc tgcggctggc ggaggccgag ctggggcgcg 300
 cccgccgccg caacgccgag ctggaggaga ggctccggca gctggccgcc gaggggcagg 360
 cgtggctggg cgtcgcccg agccaccacg ccgtcgccgc ggggctccgc g 411

<210> 18578
 <211> 435

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-D6

 <400> 18578

 acccacgagt ccacttctag attgtccaag tcgcgtggat tctctccatt gtaattatgg 60
 ggatcaatat ttattttcttc tgcaatagct tcataagttg gcttgtgcac agtgaactcc 120
 caaggatagt caatgttata attagcaccc ttgtcttccc tttcatggcg gcatatattg 180
 cagctttaat ctacttggct ttcagaaaag ttaatgctgc tggcatattc ccttcogtgt 240
 cagcttccac tgggactgaa gtagaagcat ggaggcaaga tggcaacatt gatgatattg 300
 gtgtacattg atatgtttga aacacagtat ataaatatac tctttcatta aaaaaatatt 360
 ttgttcatac accacacatt agggaagacg tcaaaccatt attgaaagat gtatatagtt 420
 atacatatag tttta 435

<210> 18579
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-D7

 <400> 18579

 acccacgagt ccagccatgt aagagaagct catgcggcca aggagaaaaa gttggctcct 60
 ggcaagggtgg ttctggaatt cgattaatgt tattaagatt ttgtccattg ggacctgaag 120
 ggctgtgctt ttgcaaatca tgatagtttt ttttgtaaaa aaataaatct gaatctctct 180
 gccgacttca ggttccattt tatcgttccg tttcagtaga aatacggtaa ataatcatat 240
 cagctatggc ctatgggcac gattttcctg atg 273

<210> 18580
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-D8

 <400> 18580

 cgggccgacc cagcatcca cggacgcgtg ggcgcaagac cacctcacca gctcctcgt 60

ccccgatctc ctcccacccg catccaaggg ttctcttctc gaccgtgcgg aacgagccag 120
 agaacaggta tggcgggcgc gcggcacctc agatccggcc tccccctcct ccgcgcccac 180
 ctcgcatcct ccgaatccgc ggccgtcgct caggtttoga ggggcttcgc gtcgcaggcc 240
 gccaaagcca ccgggaagga gatcaagggt ccaaaggctc tgtttggcgg cacaggcaac 300
 tatgccagtg cactgttctt cacagcagct aaatctaata cattggacaa agttgaatct 360
 gagattaaag ctattgtaga ggcttccaag aagagcccgt tgtttt 406

<210> 18581

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E1

<400> 18581

cacgcgtcaa atttagaact ctctctagaa gcttctcgg tctcccggtt caccgcccgc 60
 ccgtaccata ctctcttcg cgcctagaa atggcgctgc cgaatcagca gggcgtggat 120
 taccacagct tcaagctcgt catcgttggc gacgggtgaa ctggtaaaac cacatttctg 180
 aaaaggcatc ttactggcga gtttgagaag aaatatgagc ccaccattgg tggtgaagtt 240
 caccctctgg attttagcac taactgtggc aaaattcgct ttatttgctg ggacactgct 300
 gggcaagaaa agttcgggtg ccttagggat ggctactaca ttcattgtca gtgtgccatc 360
 attatgtttg atgtcacttc taggctgaca tacaagaatg tcccgacat 409

<210> 18582

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E10

<400> 18582

acccacgcgt caagtcacat cgtgtgtgag cgcctctgct ggtctgcaa gaggatgaaa 60
 ggaatgagga gcaagtaaag atggcttgcc ctgcgcagtc catgctctcc gccagcggct 120
 gcatcttctt gaggagcaag cctcaggcgg catcccaagt gcgagggggc atcatcggcg 180
 gtggccgcag cagcaggccg ttctgtctca cctgcaacgc ttctcttctt ccgtcccctt 240

cctcgccggc gccggcgag gaagaccccg actgcaacga ggaggagtgc gccccgggga 300
aggaggtcg 309

<210> 18583
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E11

<400> 18583

aggagatag tggatgctaa aaattacact tttttcactg gaaagtggga ggcatcacca 60
gatgatgata taagacattg gtccaagttc ccatcattta cgctcttctt gggtcagatt 120
gagacagatg gtggcaagtc tctggacttt agcaactatc cttatatatt tatgagatgg 180
aaagagcaat attttgtcaa cgttggagtc gactgtgggt taaccatcgc tggtttctac 240
tacgtctgct tttctttagt cgatggctcc attaatggat tttattatga tccaaatagc 300
agtccatttc agaagctcga gctgaagtgt accaatgaga aaaaatccgg gttcaccttt 360
tcctcctacg agctgcagtg acaggacaga tgcctcgcac agacaactt 409

<210> 18584
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E12

<400> 18584

accacacgt cagaaaatat cctggagaaa caagagtggc cttttcttgc aagaataagc 60
gtggcacaag gtttactcct atgtttcaat ggctgacaa gtctgtttcg ttaggagtta 120
ctcaagcctt ggcattgaaa agatctgggt ttatgggtgag acccagtata caagtcagtg 180
tgtgccctac gtttggagga agtgatcctg ggggtacgggc agaagttgtc cattcattga 240
aagaggaatt gaatctgatg tgtggcctct cttgctcgcg gcatccatca gcttatactg 300
ctctatctat tggacgatca aagtggaacg gtcaagtggg cagttctgga gtggtaatca 360
ccttggaac acctcttaac aacattggaa ggccgtcggt atctgttcaa ctgaatg 417

<210> 18585
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E2

<400> 18585

tgctgtcgca gtaaagaatc gtcaacaagg gcgttctaaa tatggggcca aaaagccaaa 60
aaaataagtg attcgttttt agcccttata aaaagaaaac ggattcttga acctctttca 120
cgctcatgtc acgtcgaggt actgcagaaa aaagaaccgc aaaatccgat gcaatttttc 180
gtaatcgatt agttaacatg gtgggtaacc gtattatgaa agacggaaaa aaatcattgg 240
cttatcaaat tctctatcga gccgtgaaaa agattcaaca aaagacagaa acaaattccac 300
tattgggtttt acgtcaagca atacgtagag taactcccaa taaaggagta aaaacaaga 359

<210> 18586
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E3

<400> 18586

cccggccgac ccacacgtcc acccacgcgt ccgcgcggag ccgtcgtggc tggcggagcc 60
catgggtgaag gcggcggttcg agaagttcgg cggcaggatg aaggacatcg aggggttcat 120
cgacgagtgc agggccaacc tggacctcaa gaaccgctgc ggcgccggga tcgtgtcgta 180
cgagctgtc aagcgcttct ccaagcccgg actcaacggg aggggcatcc tcagcagcat 240
ctcggcctgt t 251

<210> 18587
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E4

<400> 18587

cacgcgtcca cttcaacacc tcttgacctc tttgatcaat caactgtgca acagcctgtc 60
acatctgctg cgccgataaa tctgtttgct ggctttaatg aacagttacc agcttctcat 120

aatacagatg gtgtatccag tcattttggt gttgctaaag aacctgccca taatgttggt 180
cagaagggca taatgccatc agctgaagca ctgccacat ctcatgctgt gcaccaagat 240
ttgttcagtc tgtcaatttt gcaggaacca gcaacacct caccctctca gccaatagat 300
ctgtttgctg gctttgacca acatttgccg catttgctta ctgttcagaa aattccatcg 360
gcagttccat ttctgctaa tgatggatgg gctttctttg acgtgcaaca tggattgttg 420
acatctgttt 430

<210> 18588

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E5

<400> 18588

aagcaaccgc aatggcgagc agcaagttgg tcctctcttc cagggtttc gccggcaagg 60
ccgtgaaggt gctgtcgtcg tctgccttcg gggacgccc tttgactatg tgcaattcgg 120
cggcgaacgc taaggcggcg gggcgctcag ggagctcgtc gtacgggacc gaacgaatga 180
tgtagttgcg gtcattgatg ggccatctga cgtcctagct gtcgggcgac tt 232

<210> 18589

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E6

<400> 18589

acggacgcgt gggcggacgc gtgggtcaga tcggaggcga gcgccaccac cggccggagg 60
aagaggacga cacgatgctg cgggttgctg ggagaaggct ctctcttcc ctctcctggc 120
gccccgccgc ggcggtagcc agaggtcccc tcgccggcgc tggcgctccc gaccgggacg 180
acgactcggc tcgcggacgg agccagccgc ggttctccat cgactcccc ttctttgtcg 240
cttccagggg tttctcttct actgaaacag ttgtcccaag gaaccaagac gccggcctag 300
ctgacctccc agcaactgtg gctgctgtga agaattccta ccctaaggct gtttatgatg 360
agtacaacca tgaaagatat cctcctggag attocagcaa gcgtgccttt gcatac 416

<210> 18590
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E7

<400> 18590

accacgcgt ccgcgcggag ccgtcgtggc tggcggagcc catggtgaag gcggcggttcg 60
agaagtccgg cggcaggatg aaggagatcg aggggttcac cgacgagtgc aacaacaacc 120
tggaacctcaa gaaccgctgc ggccgcggga tcgtgccgta cgagctgctc aagcccttct 180
ccaagccggg agtcaccggg aggggcatcc ccagcagcat ctccatctga tccatcctca 240
gcatgcatta gtccaattaa ttaaaccggg ggttgacta ttattgcatg cagaggctgc 300
ttgtcgaata aaacgtacta tatgtacgat tgtattgtac atgtgtgtca atgcaacaag 360
aggcacgttt gag 373

<210> 18591
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E8

<400> 18591

aacggacgcg tgggcggacg cgtgggcgtt gttgtatact tgtgtgttgt tacttaacag 60
cgtgtgtagt gattagcact gcacactccc tgattgtacc atggtatatt gaatgtttat 120
actgctggaa gaaaaaaaag ggggaccttg tgatggtcag atgtttaatt t 171

<210> 18592
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E9

<400> 18592

cccacgcgtc cgattcgctt cttgttcttt aaaagttcag agttcaagag ttcagtttag 60
agagagagag ggggagagtg atttgccgac ttgccagttg ccgcacaaag ctctcttagc 120

acctctgtgt ggccgacttg tccccggtat caccaagtct gcaggcctcc ccagtcgtcg 180
 ccggcgaggg aacgcgccgc ccgtgacgcc gggggttgtt ggcccgccgc ttgaggccac 240
 aagcgcgcca gcatcaggac ctcacaggtg attcaatcct gaaggcatca actatgttca 300
 attttcaaga aatgtcttgc tgttttacgt gtgcgacggg catggaacga aataatgaaa 360
 acgaaggagg aagcaaggtg aggatttttt cctacagtga gatg 404

<210> 18593
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-F1

<400> 18593

cgtccaacca agcgtccgcc cacgcgtccg aggagcacct gcagcatgta gcccggcctt 60
 cttctacctc tagccttccc ctgtcgagct ctttgggtaca tggaattttc cccctctgct 120
 acacctcccc tgggctacgc acttgtcctc acctccccgc catctacctc aaccagcagc 180
 caccatctcc ctgtatttcc cagccgtgga gcccaggatg ccgaccaggg acaccagcag 240
 ccggcgctccc aagctcgagc agccgtctgt cctcaacgcc ggcacccgcc aagtttcgtc 300
 agccggtctg cagctccctt ctgctcggac gccagtcgag ctctcccttg gcgcacctcg 360
 ccagcagcag agaatctcca agtgcaggcg accagcatct ttccccatgg cgccccctgct 420
 c 421

<210> 18594
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-F10

<400> 18594

agcccacgcg tccgatatat cgtcccttct ctccgactct cctcccttc tccacggccc 60
 agtgcgcacc tctccctcca cccctcgtcg caaggcccag gcacccgagc taggcacgac 120
 gatgcaagtc aagccggaag ctgcggttcc ttcgccgtca ccgccatcgc cgccagctcc 180
 gtctttccat caccgaagaa ctgaggagga caacagcggc gtcgaaattc cgcggcggta 240

accggcctaa acgtatcggc gtcgcggcat acaagggcat tccaggcgag gcgaacctga 300
 gaatgccag ccgaaacgtc aacgctacgc ctacgccggg tacagtgcac ttgcacgagc 360
 atcgttctca tggggtcact gtctcacttg ctggctcact gcacgc 406

<210> 18595
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-F11

<400> 18595

agcggacgcg tgggggacgt catcgccgt gccgagctcg cggactacgg gcccgtagcga 60
 gggaccatgg tcattcgccc ctacggatac gccatctggg aggccatcca ggattatttg 120
 aatgtcaa at tcaaggagac agggcacagc aacatgtact tccctcagtt cattccatac 180
 tcatttatag agaaggaagc tagtcatgtt gaaggggtta gcccgagct tgcattgggc 240
 accattggag gaggaaaaga actagaggaa aagcttgttg taagaccaac aagtgagacc 300
 attgtaaacc acatgttcac caaatggatt cagagctatc gtgatcttcc tctcatgata 360
 aaccagtggg ctaacgtgac aagatgggaa atgcggacta aacca 405

<210> 18596
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-F12

<400> 18596

acccacacgt cagcggacgc gtgggtggca agattgctga cgtttggtca tgtggtgtaa 60
 ccctctatgt aatgggtgtt ggcgcatac cttttgaaga tccagaagag cctaagaact 120
 tccgcaagac aattcagcgt atcttgaatg ttcagtaacg aattccagac aacgtgaaca 180
 tatctccaga gtgcaggcat ctaatttcga ggatttttgt tggcgatcct gctacgcgaa 240
 taacaatccc tgaaatccgg aatcatagtt ggttcctgaa gaaccttcct gctgatctga 300
 tggatgatga tagcatgagc aaccaatatg aggagcctga ccagccaatg cagaccatgg 360
 atcagataat gcagatttta acagagggcc acataccaac t 401

<210> 18597
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-030-Q1-E1-F2
 <400> 18597

agagcattca tattatatga agaagaaatc gcggattcaa aggtctcaaat cactgcaatt 60
 cacctgataa ttggggaccct tcagcggatg aatatatttg ggggtggaaaa tagagacaca 120
 ctcaactcaca agacaacagg gtactcagca aaacttctca agaagcctga tcaatgccga 180
 gcagtttatg cgtgttcaca tcttttctgg gctgatgacc aagatgggat aatggatggg 240
 gaaaggggttc tgctttgttt gaaacgtgcc ttgagaatcg caaatgctgc tcaacagatg 300
 gctagtgcta caaggggaag cagtggatcc gtaactctat ttattgagat tttgaacaag 360
 tacttgtact tctttgagaa aggaattccg cagatcacaa ataccgtgat tcaagatttg 420
 attgaattga tt 432

<210> 18598
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-030-Q1-E1-F3
 <400> 18598

acgcgtccga ccaagcgtcc gcgaccacac gccaaaggaa gaagcagcag cgccatggcc 60
 gcgccgtca cggccgtccg ggcccgcctc ctctcctcc cagtgcctg caccgcagcc 120
 ggtaccaccg gccggccggc cctccgtcc aagagcagca ggccgcgtct actaccacca 180
 ggcaccaccc ggtgccggtg ctccaggcct cccatggagg cgggtggcgcc ggtgtccgcg 240
 gcggcggtgg cggcgtgct gctgctgccg gcggacgcgg cgctggcggt gggcgggcag 300
 ttggggatcc tcgagggccg cagcttcgcg ctgctgcacc cgctcatcat gggcgggctc 360
 ttgcgtaca cgctctgggc ggggtacctc ggctggcagt ggcgcgggg 409

<210> 18599
 <211> 184

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-F4

 <400> 18599

 ccggatttgt taaatttgta ttttgcttct gccatgtaat aaaaccgcac tgtaactaga 60
 aacaggaaaa atgttggtga agggctggaa aatctgctgt cgtggtcctt gagcccgat 120
 ttctctttcg tagttggatt cattaaccgg cctgagtatt cctgaaaaaa aatactgtaa 180
 ctcc 184

<210> 18600
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-F5

 <400> 18600

 acccacgcat ccaccacgc gtccgcaacg acggccgacg aggtcgtcca ggccaacacc 60
 gtggtgcagt ccctgaacgc cttctcgtcg gtggcgaca tctcaggat gggcctcaag 120
 gtggtgccga tgatecgcc cttctcaacc ctccgggccc tcaacctctc cagcaacctc 180
 atcgttcata tctcccttgg atcgctgcc aagggcctcc actctcttga tctgtccagg 240
 aacaagattg ccagcgtcga gggcctccgg gagctcaca agctacgcgt gctcaacctc 300
 agctacaaca ggatttcgcy gattgggcat ggtctgtcga actgcacggc catccgggag 360
 ctgtacctgg cgggcaacaa gatcagcgac gtggagggtc tgcaccggct gctgaagc 418

<210> 18601
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-F6

 <400> 18601

 acccacgagt caagggatgt cataggggat cgtgggctac aagttgttgc agagacctgc 60
 aagaaattgc agaggctcag agtagagaga ggagatgatg atcaaggagg tcttgaggat 120
 gaacaaggta ggatttcaca ggttgggggtg atggctatag cccaaggctg ccttgagttg 180

acatactggg caatatatgt atcggacatt acaaatgcag ctctagaagc ggttggtaca 240
 tgcagcagaa atcttaatga tttccgcctt gtccttcttg atagagaagc acatataact 300
 gagttgccac tggacaatgg ggttcgtgct ttgcttagag gttgcaccaa actcaggagg 360
 tttgcatttt atgtgagacc tggggctcta tctgatgttg gtcttggcta tgttggagaa 420
 ttttagc 426

<210> 18602
 <211> 200
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB84-030-Q1-E1-F7
 <400> 18602

agaaggtcac agacaagcct attctgatat atcccaacag tggtgaaaga tatgatggtg 60
 aaaaaaagga gtgggtggaa tccactggtg tgtcagatgg tgattttgtt tcgtacgtaa 120
 atgaatggtg caaagatgca gcagcccccg ataagcgcan ccccatcttt gcaccacgca 180
 tttacgttcg aagatagggc 200

<210> 18603
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-030-Q1-E1-F8
 <400> 18603

aaccacgcg tccgcccacg cgtccgatca gacaacaaga tgtgcttcga ttgtaacgcc 60
 aagaacccga cgtgggcgtc cgtcacctac ggtgtcttcc tctgcatcga ctgctcggcg 120
 gtgcaccgca gcctcggcgt ccacgtctcc ttcgtcaggt caacaaattt ggattcatgg 180
 actccagaac agctgaaaat gatgggtctat ggaggaaaca accgtgcaca agccttcttt 240
 aagcagcatg gttggacaga tgggtggaaaa attgaagcaa agtatacttc aagagcagct 300
 gacttgtacc ggcagttgct tgctaaagag gtcgctaaaa gcgcactga agatggcaac 360
 aatagttggc catcttcacc agttgcagct tcccaagctt cggattaaac tg 412

<210> 18604
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-F9

<400> 18604

tctcaatctt catatgatat tttcagatgg ttctgtgtgg aggctgggag ctcttctagt 60
cctaaagtgc ttttaattca cggcttgcca tcgcaggcat actcttaccg caatgtgatg 120
cctgtactgg cggacaaata tcatgccatt gcttttgatt ggctcggggt tggattttct 180
gataagcctc aaccaaataa tggttttgac tatacacttg atgagtatac ttcatecttg 240
gaatttctag tcaatgctgt tgctcctgat aagctctcta ttgttggtca gggctacttt 300
gctccggttg cagtcaaata tgctagtga caccaagaca aattgaatca tcttgacta 360
gtgaatccac caataaccga taaacatttg aaccttccat cc 402

<210> 18605
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-030-Q1-E1-G1

<400> 18605

agaaccaatg ggggcggcgc cgctgctcca cgactcgta cgcgcngag acggccgggc 60
tgtggcaagc agcgcctgcc tctggcactg gactggcag caacagcaac caggcccagt 120
cgaagcgggc gccgccgct cacaagttcc acgagatagt tgcgcaggag gcgacgacgg 180
ccggcggcgg cggcggcggc ggactgctg ctgcagcca cctggaggat caggcgtgca 240
gcaccggggg ctacctggct gggaaaacca agaagtactg ggtggacgag aagaccaggt 300
gcaactgctt cgtgctgttc gctagagcgc tgtccatcac ttggggcgac gatcccagat 360
actggatctg gcatcccgtc agagaaacca agtacgtgct atctata 407

<210> 18606
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G11

<400> 18606

acgtcagaaa tgatgtaatt tgtggggcgc cagcatcttg tctcctagag taatattctg 60
tttgcagtac caacgtcctt tagcgctctg gtgccaatta ttgcaatgca tcttgtgcac 120
aacacgaatg gcaatctgga ggtgccataa tgacgagcag cggagcagat ggatgaacac 180
aactgaactg catgagctac ctgttatctt catgcatgca acggtttgtc ggagtgtctat 240
gccctcttgt actttccagt tgtttcgttt cttggtggta taaggaaagg tccatgggca 300
gcactgtgag acatggcatg gtggatgggtg ggtgcatcgg tgcttgttcc accggccctg 360
tgatgtgagc atctcacgct ggggtgttca g 391

<210> 18607

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G12

<400> 18607

ccggggccgac ccaaacgtca gcgcaggagt ggcttgacaa gctgccacca ccgtcctacg 60
aggagcgata cgtgctcacg cgcgcgctcca ggaaccgcga gctcaacaag cacgcgcgcc 120
tgggctgcca ggtcgtcctc gcgcgggagc tgcaggggat ggtcgtcgcc atccccgagc 180
ctaagccgtg ggacatccca taatggcctg ccgacgaaag gtaaggtgcg gcttttgacg 240
ctgtgagcct tccttaattc ccttggtctg gtcaagctgt gcgcctgtgc catccccctt 300
tatatgttac ggatttagtg aagaataata atttgatgag cagaacttgg cattgggttaa 360
cttttgttcc tagtatatgg atgctcta atgtggaatcct tttgcaacta ccgc 414

<210> 18608

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G2

<400> 18608

acgcgtccag acgagctcct gcacatggcg tctgtcgccg tcttgcagtt tgtccacgat 60

ccgcacgatg atccaccagt gctaggctgc gtacacttga ctctagctcg cgtatatgcc 120
 ttggatcgag ctcgctctct ttctctctgc aaggaccact tcacaacctt gggaaaagac 180
 ctccacgtca ttgggtactg ctgcgatgat gctgaacccc gtcgtcgaca actccagttc 240
 tacgtcgccg agtccatgtt tcgggtagca gaggttgacg cctttggtca taggtggact 300
 gtccggctga gttagccgga ccgtttgtct gagcaccgga ttgtccgcac gtaagtgccg 360
 gaccatctac gatgctgggg ctaggctgat gtgttt 396

<210> 18609

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G4

<400> 18609

acgcgtccag ctgaactgcg acgtaaaca cgtggccgcg ctacgcctgt acagaaacca 60
 aggcttcaag tgcatacgag tgccggaagg agctaaatgg cccgaacca agatagctaa 120
 aggagcggag tacaacttca tgatgaagct agtgcccaag gcttgagtct tgaaccttat 180
 aagatctgac tagggaaaaa aagggaagg tttggccgtg taggttttgc acggatgcac 240
 gatttgctct ccattcatgt gtacagcatt tgggtgtatag tggaggctac tttgtaaatg 300
 gtatatataa cagctacgtg ttggtccata gtgagtgact gaggggtgctg gtgtttaaac 360
 catccccagt ccttgtgttg ttgtgtgtta tgttcttcag attctac 407

<210> 18610

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G5

<400> 18610

agcgcgtctg gagcgtgga ggggtgcgcac tacctcgcaa ctggcaagct ggaggtgctt 60
 tcggagcagc agttcgctga ctgtgaccac gagtgtgatt catcggagcc tgaattcatgt 120
 gattcggggt gcaatgggtg gctaatacgc acggcattca gttatctcca gaaggccggt 180
 ggccttgaga gtgagaagga ttacccttac actgggagtg atggcaaatg caagtttgac 240

aagtccaaga ttgttgcttc agttcagaac ttcagtgttg tgtctgtgga cgaggctcaa 300
 atttctgcta acctcatcaa acatgggcca ttggcaatcg gcatcaatgc tgcctacatg 360
 cagacataca tcggaggcgt gtcatgcccc tacatctgt 399

<210> 18611

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G6

<400> 18611

aaccacgcg tccgctgctg aagccgtcca tggtagcgcc cggcgcgag gccaggaca 60
 gggccacccc ggagcaggtg gccggtaca cctcaagct cctccaccgc cggatcccc 120
 cctccgtgcc cgggatcatg ttcctctccg gcgggcagtc ggatgtggac gcgacgcaga 180
 acctcaacgc catgaaccag gggcccaacc cgtggcacgt gtccttctcc tacgcgcggg 240
 cgctgcagaa cacctgcctc aagacctggg gcggccagcc ggacaaggtc aaggcagcgc 300
 aagacgcgct gctgctgcgc gccaaaggcca actccctggc gcagctcggc aagtacacct 360
 ccgacggcga ggccgccgaa gccaatgagg gaatgttcgt caagaactac 410

<210> 18612

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G7

<400> 18612

aaccagcat taaatctctg aaatttggga ggtttcttgg atgtggattc ctgctgctcg 60
 ctagggttgt cgcggtgacg ttctgcgtca cgctggcggc gtccttgccc gctcgtatg 120
 gaccacccgt catggcaggc ttccagatct gctgccagct ctggctggcc acgtctcttc 180
 tcgccgatgg attggccgtg gcgggacagg cggtgcttgc aagcgcgttc gccagaacg 240
 acagcaagaa ggctcgtgcc gcgacatctc gtgtgttgca gctgagcatt gtcctaggca 300
 tgggtctcac cgtcgtgctg ggacttgcta tgaggttcgg ggctggcatt ttcacaagtg 360
 acgtgcccgat gatccaagtc attcacagag gcatcccc 398

<210> 18613
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G9

<400> 18613

agtattgaga agtgtcctct ttgtccgaac tacaagcttg tttatgattg cacatcaaag 60
gaatgcaaga ccagcggatc tagtatttgc agaggggtgtg ttgtttgcat ctctagatgt 120
ttgcatgtg ggagatgtat cgacagtgtg tttgaatttg aagagacatt ttttctgggg 180
agcatttgcc gtgactgtgt caagtattca cccaccaca gaaaaataga tgtttgattc 240
tggtatccat tggatggata cagttgtaac attggatttc tgtgattgat gctcccatcc 300
atcagacatc ttgactgagt atttctaaca aggaaaataa gagagaaagg tctaccagtt 360
tgctatcggg ttaggtgcag cagctgatat attgtttttg 400

<210> 18614
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-H1

<400> 18614

cgtccagagc aagtcagcta cctccatcaa ccagaccaga ccaggaccaa tggccctgcg 60
cctaccaatc tcatcgctcc acgggctggc ctccacgccg gcgccaatct ccacgacgac 120
gtgccggccg gccgtcttgg cgacggccgc ggcccagaag aggagcctgc tgctggcgac 180
ggcctccgag acgaggggag tcgcgccggt gaggtccagc gggatcgaga cgagcacggt 240
gggtctggga tgtgaggccg tcaccgggca ggtcacggag gtcaacaagg acaccttctg 300
gcccatcgtc gaggcggccg gcgacaaggt cgtcgtcctc gacatgtaca ccgaatgggtg 360
cgggccttgc aaagtgatgg ctccgaaatt ccaggagatg tctgagaaga acctggatgt 420
tgtgttc 427

<210> 18615
<211> 379

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-030-Q1-E1-H10
 <400> 18615

```

agtgccaaact ttttctataa ctgccctgat aatactttcc aaattgctat ggctggaagg   60
tcattctcac ttctgcagag gattggagct tttgtgagga atggtataaa gcttttggca  120
gtgggaacta ctgcttcttt gattggcact agtgtcacga atgcagcgt caaagcaaag  180
agggctgttg ataaggacct tgaggacgaa gtcattgaaa ttccagtcgt ctcaactagt  240
gttgccatg gtgtatacat gtccatttct agtaacctca ggtatcagct tctggctggc  300
gtgatcgagc agaggatgct ggagccgttg ctgcataacc agaagctact gctgagtgc  360
atgtgcttca tcgttcgta                                     379
  
```

<210> 18616
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-030-Q1-E1-H11
 <400> 18616

```

cccacgcgtc cgcggacgcg tgggctccac cttcctcgcc gcctcactcc ctctgaggtc   60
gcagatccgt ccggttagac gaagccgccc gcacccatgg cctccggtga gctcgctgc  120
acctacgcgc ccctcatcct cagcgacgac ggcacgcga tcaccgccga gaagatcgcc  180
accatcgatg aggcggccaa catcaaggtc gagtcctact ggccggcgct cttcgctaag  240
ctcctggaga agcgcagcgt tgaggatcta atcctctccg tgggatctgg tgggtggcgt  300
gctccagttg ctgcttccgc ccagctggg ggtgctgcag ctgctgctgc ccctgctgca  360
gaggagaaga acgaagagcc caatgacgag tctgatgacg acatggg                                     407
  
```

<210> 18617
 <211> 190
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-030-Q1-E1-H12
 <400> 18617

gcgtcaacgg acacgtgggg tggtcagctc ctgcggccac gatcggcccg tcggcgccat 60
cggattaaag aggcgcctaaa acatgggaac gatcagcgcc gtacccgaga tcagggatcg 120
ccacatcact agcgacgacg acgatatttt acgcaacaag ctcgagggtc tgcctcgcaa 180
gatcgtcagc 190

<210> 18618

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-H2

<400> 18618

atggtaaaat aaaagagcgg aaaattatat acattctgac agtttattat ggcatcgata 60
attcattctc gggcttggtt ccacatgttg cacagtgggt gcttgctgtg cataaactc 120
agatactctt gagtgtattt ttggctatat tagcactgct ccttggtggc ttttgtgctt 180
accatgcaca tctttgtttg acaaatacaa caaccaacga gacattcaaa tggcaagact 240
acatcatgtg gatgaaaaag gaaaatgaag caaaggcgga cgctgccacg ctcatatcca 300
gcataggctc ggccaatagt gatgcacaga aagctcctcc aagcaaatgg aggacgttct 360
tcatgagatt ccgcacacca agcatggaac cagttgtgag aaacaacata ta 412

<210> 18619

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-H3

<400> 18619

acgcgtccag tttatatcat aattgtgaaa ggcattgtta tcagcctata ttaccatgga 60
taaagtgtga tggtagtact aatagcactc tctatgaagg tttaagtcgc cgagttattg 120
gttatgtcat gcactatcca ggactatcgg aggaagatgt tatccgtagg atggatgtat 180
tgaatcctca gacttgcagg accctgctag aaaagctaac gctcgatggg aaccttcatg 240
ttcgggtttt tgaagaacct gtgccaatgg ctccgaccac actgcaggat ccagacttgt 300
gagggcatca agatttgga tgtttaaatg ttaccgtccc cagaactggt aaggccatct 360

cgtaggtaaga ccattctccgc cgtgtaaaata gtcgtgcaaa gtactatattt gcacctgttt 420
gc 422

<210> 18620

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-H4

<400> 18620

acccacgcgt caacggggccc ctgtgggaag cagcaccatg gccctctcct ccacggcctt 60
cgccggcaag gccgtgaacg tgccgtcgtc gtccgccttc ggcgaggccc gcgtgacgag 120
gcgcaagacg gcggcgaaaag cctaatacagg agcagtgtcc ggaatcccat agtatcgaca 180
cgggcgccctg ctgtacctga ggtcactgtc tgagctagtc gctttggcga cgcagtcggg 240
ctacttcaca ggcgactcct attgggacac aaacgggctg atcgctgtga tctgggaggt 300
caccactcag cgggagcagg aggttatcca ttcccgtctg gccatgctgg gcgcgctcgg 360
ctgcctcttc ccggaactgc t 381

<210> 18621

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-H5

<400> 18621

acggacgcgt gggcgcggtt ggaaggaccc cttcgcgtcc agcgcttga ccgtgcgcca 60
gaaggcctac gtggaggcgc tccgcctcga cacgctcttc acgccgcagg tcgtcctgca 120
gggcccgcgc cactgcgtcg gcaccgacca ggaacgcgtc gcgctggccg tccgcgacgc 180
cccgcgctac cccgcgccc ccatcaaggt cacgttccag cggccgagcc ccgcaacact 240
gcaggcgtcg ttcacgggca ccctgcgcag ccgcgtggag ggcccaggcg gcgcgagcgt 300
gctgggtggcg ctgtacgaga gcgggctggt gaccgactgc gggcgcggcg agaacaaggg 360
caagtcgctg ctcaacgacc acgtggtgcg ccg 393

<210> 18622
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-H6

<400> 18622

acccaagcgt caacggaccc caatggcgag catcacgatg gccctctcct ccaccgccgt 60
cggctcagat ctctgcgtgc gggctagcga tggcgctcgtt ctcggaaggct cccccaaggga 120
acccaagcgt gggcgagaag atcttcaaga ccaagtgcgc gcagtgccac acagtcgaga 180
agggcgcccg ccacaagcaa ggtccaaact tgaatggtct ttttgggagg cagtcgggta 240
ccaccacagg ctactcctat tccgcgggaa aaaaaaaca ggctgtgatc tgggacgaga 300
acactctgta tgactacctg cttaacccta agaagtacat tcttgggaacc aagatggtct 360
tccctgggct gaaaaagccg catgaacgtg ctgatttcat tgcgtatctg a 411

<210> 18623
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-030-Q1-E1-H7

<400> 18623

agccacgccc ccacaccaag ccgtatcgtc ttctccctct tgtccggttc ggggtggtccg 60
cggtcgggggt gaggtagtga gcagctttgc ttctccatct ccccggtccc ttccctcccc 120
agcccccccg cccggcggcg gtacgtgacc ctgacgcgcg agcgctagct agctcgccgg 180
aacggcaggt ggcggcggcg gacctgagag cacagcagca ccggaccggc tcaggcaggc 240
gaccggcaga aaagatggcg ggagcagcag ctgtggagac ggcggcggcg gcggcagcgg 300
ccaacggaaa agcgtgctgc cagcccgcca aggggcccgg gtacgccacg ccgctggagg 360
ccatggagaa gggccccang gagaagctcg tctacgtcac ctgcgtctac 410

<210> 18624
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-030-Q1-E1-H8

<400> 18624

ggggagagcg caagctctgg gataagctgt tggaggaagc aaaggtcaac gttaccccag 60
gttcttcttg ccattgcatt gagcctggat ggttcaggtg ttgcttcaca acattgattg 120
aggaggacat tctgtcttg gtggaaaaac tgaggagggt cacagatagc ttcaaattca 180
aacgttgaâa cgctagaata gtttattttt tggaaacctt gcggtatcga aataaccata 240
tctcaccagg tgctctatag tggattgcag ggggcactca ggaaaagggt ggacaattca 300
tttatttttag accatanata ttcaggggct tcttgctata cagctgcata acaattgctg 360
gaagccccta agctggtgga aggat 385

<210> 18625
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-H9

<400> 18625

aggagctgct ggttctggta ggctcggaca tggccgtcaa tctagcatcc tgggattttc 60
tctgacctca actgaatata ctccaagatt gatcaaaaac tttgatggta tcaagattaa 120
aaagatagct gcaggaatgt tgcactcagc ttgcattgat gaaaaaggga tttggaagac 180
cgaacgaaga attcagacca aatattgttg aagagatacc attttcagaa gaagttgctt 240
gtggagggtta ccatacttgt gttgtaacag atagcgggtga tctgtattct tggggttcaa 300
atgaaaatgg ctgccttggt ctgggaggta cggatatggt ccgctctccg gaaattttga 360
aaagttctct atttaaactt cctgtatct 389

<210> 18626
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-A9

<400> 18626

cacggaaggg gaagaaggcg tggcgcgcca acatcggcac cgacgacatt gacgattttt 60

tcgagaagca gacgcgcgat gccacgcgg gcaccgcgc catcccttct cttccttcgg 120
 actcgcctctt ctttgctgac aagcccgcca cctccgcac tacttccgcc gccgggcgcct 180
 cggacacaac caccaaagat attcctgtca aaaggaagat cgagaagaag agggagaagg 240
 ttctttatca tgagagtgtg ctgaagcgga atccgtttgt gcagccaatc ccatcttctg 300
 tgccgggcaa gaaggataag aagataaaga agaagaaatt gcaggagaca caggagaga 360
 aaagtgttcc tatgggaaat ggatcggtag ttaagaactt tgacatctgg gctgtg 416

<210> 18627

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-B5

<400> 18627

cgttggtcga cacaacactc tatagtgagt cgtattagct acaccttaac aaacttgata 60

taaaccattt atcgccctga ac 82

<210> 18628

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-B6

<400> 18628

cacgggcgcg cccagagcgg cggcggcggc ggtacggcgg cggcggcgtc caagatggag 60

agcagcccga ccagcaccac catcatcggc gaccatgccg gcgacgacgc gctcgaccac 120

atcctgcagt acatgggcgg cggcgacacc aagccggcgc tgctgaacca ccacaaccaa 180

cacctcgctg ccgcggcaga tgctactact actacgaccg ccgcgtgtcc tgccgccgcc 240

acaagcgccg gcctctacgg gaacaacaag ttcattgaag tcccggccct cgagcacgcc 300

ggcggcgggc tgccgccgag cccggggcgg tgcgagtacg gcgcctcggg gatcgccgac 360

tgggacgccc tggaccggct cggcgccctac gagctcaacg gcctctccga cgcgttcaag 420

aaca 424

<210> 18629
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H5

<400> 18629

aacaccctgt agtgagtcgt attagttttt gaaattggca agtatagtca agcttcttca 60
ggtgggttct caatgggcgc tagtgggtggc aacgacaaat caaacagaag agttgtcaga 120
gttaagataa ggaaatgaaa taccaatact gttcaagttg ctctgagcat ttataatact 180
aaggcaatca gcacgtataa ctttttgttt cacatcattt gtctgcggtg gcaatgacaa 240
tgagatgccca ttcttaaatt ggagattaca cttctggcac agtagcaaca ttggaactag 300
ccttttcgtg atactgtcgc ccatgatatt ttgtcgtacg gtttgccaca acaatg 356

<210> 18630
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A4

<400> 18630

cgcaccaccc taaagtgagt cgtattaacg cgtgggtttc aacaaaagag agcttggttaa 60
agtgtgagaa acttttcagtg agcgccttct gcaggcggag acttgcaaca gttatgggtga 120
agctcaagtt tgcagagcac cttaaggagg ctgtgacgta catcgaacag gggcatgtgc 180
gtgtcgggtcc agatgcagtc acggaccag cctttcttgt gaccagaaac atggaggact 240
tcatcacctg ggtggattcc tcaaagatca agaggaaggt catggagtac aatgatgcat 300
tagagtatta tgatgccatg ttctgagaaa atcattcggc agaaatttat gtgcccgtca 360
gtagtgtaat cttaagcctg ccacaaaggg gtcgtttctg aagaaatctg tgggaattgt 420
ctt 423

<210> 18631
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D10

<400> 18631

cgcggttgac atcgcaacac cctaaagtga gtcgtattaa gcatcgcgct caaccccccg 60
cccccgccac tcccgacgcg cgcacgggac ttcttggcac cgcgtcagat cccaccctgc 120
cgctctctag tccgcagcaa gcgaccgccc cggaaggcg tccgatcacc cagctctccg 180
cagctagaga ctgccaacac cccgtcgccc ccgtcttcga ggcaggaggc cgtctcccat 240
gcacggctct gctctcgcca cggc 264

<210> 18632

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G6

<400> 18632

actcgtagta catcgcaaca ccctagagtg agtcgtatta ctgtcgtacg acgagccaag 60
aacgggtgttc ccgggcgagg cgtgcgacga cctcggcggc gagttctgcg aggcgccata 120
ccaggccggc gtctcgaggg agctggcgca cgcctgagcc tgatgcaaatt tcgcatccat 180
atctgtctag aaccgagttg gtctcggtag atcatgttag tcgggtagag atgttcacgc 240
catgtaaggt atgtgtgtag cagtctagca tatgaccaag caaggccaac ggtgtatgta 300
atgtatacag gcatgtagta gaaaccagga tgaaatggta ctggtgtgat tca 353

<210> 18633

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G9

<400> 18633

aagcgactac gaccacagcg tcgcggacat catcagcaac gcgtcctgca cgaccaactg 60
cctcgcgcca ttcgtcaaga tcttggacga ggagttcgga attgtcaagg ggaccatgac 120
gacgacgcac tcgtacaccg gcgaccagag gctgctggac gcgtcccacc gcgacctccg 180
gcgggccccg gcggcgccgc tgaacatcgt gccgacgagc acggggcgccg ccaaggccgt 240
ggcgctggtg ctgccgcagc tgaaggggaa gctgaacggc atcgcgctgc gggtgccgac 300

cccgaacgtg tccggtggtg gacctggtga tcaacaccgt g

341

<210> 18634

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D10

<400> 18634

acaacactct aaagtgagtc gtattacact agctcgcccc ctggttcgcc gcctctcctg 60

ctcctaccgc agctctccct cagggttagt gttcgcaatg gcggccttca acaagcttgg 120

tggccttcta aggcacagtg ctctggtgag cggatcact ggtggctctt ctctgcagt 180

gttcáatgct gcacggctca tgtctacgaa gctagttatt ggtggctctg actggggtgt 240

tgatgacgtg aaactaacag aagcatttag caactttgga gaggttactg aagcgagggt 300

gatcacagac agggagactg ggatgtcaag acgctttggc cttgtgagac actccgatag 360

tgatgctgcg aaagaagcga tttctgcaga tggatggcca ggaaa 405

<210> 18635

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E8

<400> 18635

tggggtccac gcatacgtca gattgcatcc tctacacagg acacccttat tattttattg 60

tgtttgtcac cacacatttc caaaccatac atcaacaata tttaatgggc atttctcgac 120

caataatata gcattggtac tccacttac atttacacac ataggcaagc tcctctcacg 180

caatagagtc tacaagcatg caccggatta catcgtctcg atgctacacc tatttcactc 240

tacagctgaa tatggatata agatcgacaa atctgttcat gatttgtgga cgatgtcttc 300

atgctctgta cgcatacacg atgatattac acggtgcggg gtcttgactc taacatgtca 360

gttgctgaaa ctctgctctg ttctcac 387

<210> 18636

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E5

<400> 18636

tgagtcgtat taccctccgg ttccggttcg ggttcgtgat gttctccggg gttcggtttc 60

gtgggtgggc gga 73

<210> 18637

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-G5

<400> 18637

aagcgatccg aagctcaatc aattcactca aacctcttcc ccaaattcttc gattagattc 60

tcgttgacaa gaagactaga accgaacctg accatgtcgc tgatccgccg cagcaacgtg 120

ttcgatccct tctccctcga cctctgggac ccctttgagg gcttccccctt cggctccggc 180

agcagcagca gtctcttccc ctcggtcccg cggaccagct cggagaccgc ggccttcgct 240

ggcgcgcgga tcgactggaa ggagactcca gaggcgcacg tgttcaaggc cgacgtaccg 300

gggctgaaga aggaggaagt caaggtggat gtccaggacg gcaacgtcgt tcagatcagc 360

ggcgaacgca acaaggagca agaggagaag acggacaact ggcaccgcg 409

<210> 18638

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B10

<400> 18638

cgtcaaagtc gcttttatat atatgcagcc atagaaatag ggaccagtga aaaatgacat 60

ggtaatcaac ttcttgccca cagttgtatt cagaagaaga caacgaggat acacgagata 120

ttccgaagca tatagcttca aattagcagc tgagggaatc atgtccatata cgagacgagt 180

attcttatgc aatacatata gtttctgctg ctgtgcctta atttgataac tcgatagaca 240

tccatcttca ggtagcaggc aggggtacat gtatgtgata ccgcaatagt aatgagaata 300

aacatccact tg

312

<210> 18639

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B4

<400> 18639

atcatatatc catccatata tatgcaaggg caaggctcga gatacatggt gtttatgcgc 60

gagctgggca catgtatcat cgatcccagt atcccatgca tgcagatgca gctcgggggc 120

acatcacgag acatgggctg cctctctcgc gcgctcatga gctactaccg atgtacttgt 180

ccataagggt ggtgagcgtg gacttgggga cagcgccgat gaagctctcc ttcttctcgc 240

cgcccttgaa gatgagcacg gtggggatgc cgcggatgcc gtacgtggat gccacgttgg 300

ggctgtcgtc cgtgttcacc ttgcagc 327

<210> 18640

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-C12

<400> 18640

ctcgtggtc gacgcaagtc tctatactga gtcgtattat ccagtcgagg agctcgaggg 60

caccaatcat agtcggcgtg aactccagcg tcgtcgggct caagcccgcc gcggcagtgc 120

cgcatgccgc cgccgcctca tcgccggcga agcgggtgca gctggccgct cccgacggcc 180

gccgcgccgc tctgctcggc ctggcgggccg tcttctccgt cactggcacg acctgggtctg 240

ccaacggcac gatcttcga 259

<210> 18641

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-E9

<400> 18641

gacgggtcgcc tcgcagtggc aagtgcccga gcgatgcagc agataatcag cgcctgcaag 60
ctgcctcaca cgcaacgggc cgccgcgctc ctgccgcaga ggccatcgct caggcgcctt 120
ccagtcccag gaggtgcgcc gccgcccgg cgattggtag tcaggaggag atgccaggaa 180
gaggataagc agcagcaaga ggccgaggag ggaagcggcc ctgactagca ggagcaggag 240
cagcagaagc gaacgttcct gagcctgtag gaggccgggc tgggtggagat gtccggcctc 300
agcacgcacg agcgtttcct ctgccgcctc accatatcgt ctctgaacct gctgagagtg 360
atctcggggc aggagggcgt cccgataaga ggagctcaac gccggggcg 409

<210> 18642
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-D3

<400> 18642

tgcggcgctcg ccctctcaca gccgcgcgcg cttecgctaca tccgccagcg ccgagcccaa 60
ggaagcagat cttcagtcta aaatcaccaa taacgtgtat tttgacataa gcattgggaa 120
ccctgtgggg aagaatgttg ggaggattgt catccgcttg tatggggatg atgttcaca 180
aacagcagag aactttcgtg ctctttgcac tggagagaaa tggtttgat acaacggatc 240
cagtttccac cgtgtcatca gcgactttat gatccagggc ggagattttg acaaaggcaa 300
tgggtaccggt gggaaaagca tatatggacg cactttcata gatgagaact tcaaattggt 360
tcacactgga cctggagtgg tcagcatggc taatgctgga ccgaaaccaa cggcagccag 420
tttttcatt 429

<210> 18643
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G6

<400> 18643

ggattgaaaa cttcctcgag tgccccacct gtggctgcgg gttcgactgc aacaacctgc 60
tcatgctgca gaagcccggc gccgccaccg ccaagctgcg cctgcggggg gccttctaga 120

actccacttc tgcagatttg gtgactgctg ctgtaagctg cctcgactag tagtgctgta 180
 tgtctagtag atgtgggtta ataaagaggg caaacttgaa agatcccagc ttttagatgt 240
 gggatgggggt aaccaagtgc aggactcgat gtcattgttc accaattggt tcagacagtt 300
 ctaggaacag tcagagaagc agttaagact ttcagatatt ttatttatac gtctcta 357

<210> 18644

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-D7

<400> 18644

tattttccca actgctgcag atgattgaag gatgccttcc ttattatgat aagaaaaatg 60
 atgaaattga gaaggcacat aattctaaag aaaggcctcc ttttcgagct cctccaaagc 120
 attatgcaca tgggttaaga gagtaagcac tcattgtttc ccctgtatag tactccctcc 180
 gtttttttta tttgtcacgt tttagtttaa aaataaacta tcggacgaca aatatttaag 240
 aacagaggta gtagcaaaca ctcttggtgc ttgctatgca tttcaaactt ttagcaaaca 300
 actttctgca agtaatgctc aatttaacta cttgtatttg tgaaaattaa cgtgttgat 360
 ttctctcaca taccattatt gttagtatt ttcccttgg taatttc 407

<210> 18645

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-G10

<400> 18645

tagcaaccgg tccagcactt tcacgctcag ctccagcaat ggctgcctcc accatggcga 60
 tctctccac ggcgatggcc ggcaccccca tcaaggtggg ctcttcggc gagggccgca 120
 tcaccatgcg caagaccgtg ggcaagccca aggtggcggc gtccggcagc ccctggtacg 180
 gccccgaccg cgtcaagtac ctcgccccct tctccggcga gccccgagc tacctaccg 240
 gcgagtccc cggcgactac ggctgggaca ccgcccggct gtccgccgac cccgagacct 300
 tcgccaagaa ccgcgagctg gaggtgatcc actcccgtg ggccatgctc ggcgcgctcg 360

gctgcgtctt ccccgagctg ctctcccgca ac

392

<210> 18646

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-B11

<400> 18646

cgcgcggggtc gacgcaacac cctacagtga ctcgtattat gaaatcggtc agcggtcgcc 60

agaaaggcag agaatggtgg acccagtgcc tcagagagct cagcatcggc cacggtacag 120

tgaccggacc cgctatgtga agcggaggga gaaccaatct taccacagat gaagtctccg 180

tttctggaga tggaaaatgc cagggtttcc acaggtgtgc catactggac atgcaggagg 240

agccccact acccacatgc gaatgacatc cggtcggggtt tgcttgcgcg ttcgaagcct 300

gacaagttga cattgcgtac gcctttggg 329

<210> 18647

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-B9

<400> 18647

cgcggtgggtc gtcgcaagac tctatagtga gtcgtattaa cgcggtgggcg gacgcgtggg 60

tttttttttt tttttgcat aacaaaaatc cttctgagtc cgagctatta gcctaaagag 120

tgctggcatc taactaacag cctaattgac atggaagatg actcacatat aaaaatagga 180

ttcatgtatt cagatagcac aaagtccatg tacacagata ctgaaccaat tgatacggcc 240

aaaggaagtt ccatagatag aagtcagcta tattacacct tcgatttctt cgtgtgggcc 300

tcaaacagtc aaaccccgga atctgcagca ctctacttt ctctactag ttgaggagcc 360

acctgatgcc tttaaccggg catgtcgccc ctctagcctt gcttgaagta attttgcctt 420

caggggtggtt ctcatc 436

<210> 18648

<211> 75

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-012-Q1-E1-G9
 <400> 18648
 tcgcaacacc ctaaagtgag tcgtattaac tgtctaccta gactgcgcac ttcgtcagcg 60
 tgttcagcag attcc 75

<210> 18649
 <211> 116
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-012-Q1-E12-C7
 <400> 18649
 atagtgagtc gtattaatgc ggtgtcggac ttctctactg acggttcagtc ctctgcgtcc 60
 ccccggtgtgt cttcgcgcga tcaccgacgt gttgctcagc tgcacgtagt ggtgtc 116

<210> 18650
 <211> 219
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-012-Q1-E12-G4
 <400> 18650
 cgtcacaaca ccctaaagtg agtcgtatta aagcaactgg gtacatacac tgcgcacttc 60
 gtcatgtact tcccaatatg ccactggaac aaaggagaca acttccagtc gacctgcctg 120
 aaggacatct caaagctcta agcccgcaaa ccttggggtca aggggtagac atgcatctcg 180
 gcttggttat tgatagtcca gaggcgacat tagcagtca 219

<210> 18651
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-013-Q1-E1-B5
 <400> 18651
 aacggcctca gatgcgtcgg ggtgatcgtc aagaacgacc gggcaagagc ctctcatggg 60

tccaagacga agatatcgga agtgatgaca tctccagcta tcacactatc gtctgacaaa 120
accgtgatgg atgctgctgt tctcatgctc aagaagaaga tccacagatt accagttgta 180
aaccacgacg aagaagtaat aggtagagtt acccgcgctg atgttcttcg cgtgttgaa 240
ggcatgttga agatttacga ggcagatac ccatgctcgg aagccacagc ctctgttaca 300
tatgtagatg ttcccgggca tgggtgtttct gagt 334

<210> 18652

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-C10

<400> 18652

gaatgatagt ccgggatttt tgattttgtt ttggttcgat tcaaattcaa atgtttgatt 60
caagactgga atggccaaaa ttatacccca ctatggacac a 101

<210> 18653

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-D12

<400> 18653

cacgggctac gccataatcc gggagagcac ctacttcctc gattctgtgg cacccattgc 60
caaagggatg cgatggagct gcgagaagca cagcagcgag aacaaggccg acaaggacaa 120
gatcctcgtc tgccagaaaa agctttgggc aggaaagcag tgacgagaga ggatcatcct 180
tcttccttcc gagtataaaa aagtaggcat ccagatcggc caacaaggca agaggcgctt 240
caatacacat ggaagatgag cgagtacttc tgatacaaag agtggttcggc agttattatc 300
aaaataaata agccgagtaa aactccatat aggatccaac agttaccatt tttcattaat 360
cacagtttaa ttctttttct gtaccgacag tttgt 395

<210> 18654

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F8

<400> 18654

aagcaagcgc actactcctc ggatagccac ggcagcagca gcagccatgg cttgctccgc 60
gcaccttgtg tcccagagcc tctactcgtc ccaccgcgcc agcccgggcg ggcctaggaa 120
tctccgttcc cagggccgac cgccggcgcg ggcgtctccc tctgcgaggc ctgggtcaag 180
ggtcagtggc tgccgggggtg tcagcctgag agtcgccgcg tcgttcgagc aggggaaggag 240
gcaagtggag gtctcttatg acccacaagc gaggtttaac cagatagcag accaaattga 300
caaggatgct gggatgacac ggcttaacct attctcacct tgcaaaatta atgtgttctt 360
gaggataacg ggcaagagac cagatggggt ccatgacctg gcttctctat ttcatgtcat 420
aagtttgggt gatact 436

<210> 18655

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A7

<400> 18655

acaagcctct atagtgagtc gtattaggat cagccatgcc tgcgcttcta gtgaacaccg 60
tctcgggtctc tcccgcgcgc tcaaggctag gctcctcgcg gcccgccatg gcacggcgag 120
cagcaagcgc tcgccacggc cacagggtgcc gagccgaagc atccggtagc tcgtgggtgt 180
cggactacga cctgtacgag ctgctgggcg tggagcggtc ctgcgcgcag tcggagatca 240
atgcggcgta tcggtcgctg cagaagcggg gccacccgga cgtggccggc gccgccggcg 300
gccatgacat ggccgtcgtc ctcaacgagg tgtacgcgct gctctccgac ccggacgcgc 360
gtctggccta cgacctgat caggcgcgcc gctccgagtt cgccggttac acggggccgc 420
cgctct 426

<210> 18656

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D11

<400> 18656

aggacaaaat gtatcctgta tctatatggt ttcaatgtgt gtctgtactg aactgtacaa 60
gcttatcgag caagatcact gcaagtctac aacaatccac gcccaacaca ggcggtggac 120
acaacccatc caataatctt tcatgagtac agtgtcggag tcatcggcca atttcctcaa 180
aattatcatt aatttatgat gttcatgtaa ctatagtcgt aggataaggc atggccggtt 240
tggtttcatc acgcggaatg ggagcacctt cttgacgac tcatcactga gcgaagcgat 300
ctgggogtct agcgccttga cagcctcccc cttctgcgcc tcgaggttgg cgagcgctc 360

<210> 18657

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C2

<400> 18657

ctcgcggatc gacgcaagcc cctaaagtga gtcgtagtac gacgatcaca cacgcagaag 60
atcgagttcg ttcgatcgtg accgtgacgc atgaagctat aagctagcca agacaggaat 120
aataatggcg gcgtcgacgg tggcgagcct ctctgtcccc gtgacgacga cgaccttcgc 180
ggcgggcgcg gcagcggggc ggcggacgt gctgacgtc gtcccgagga gggcgggcg 240
tgggcgcgtc tggttccccg cggcggcgcg ccgcggcggc ggcagccggc ggttggtcgc 300
cgtgcggtcc agcggggcgg ccacgccgcc ggagatctcc gacaagggtgt cggagagcat 360
caagcaggcg gaggacacgt gcgcggacga ccagaaggg 399

<210> 18658

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C6

<400> 18658

taaagatgag aatggtgatg aggcccatc gaaaaaggcc caaatggttg tccaagttga 60
ggctgtccgg gtgcaaaagg agcttcgacg gactgagatt gatggttatt gtgaaggcga 120
actaatcaag gttacacttt ctggaaacca gcaacctatt agagttgaaa tcacagaagc 180

tgcgatggag ttgggtgctg aaaaactttc cgggttggtc aacgatgctt acaaggatgc 240
acaccaacgg agcgtccagg ccatgaaaga gacgatggct gacttggcgc agaccctggg 300
aatgcctgcg gccctcggca tggctctcaa ttgatccgca attcgggaaa gctttcaatt 360
ctcccttttc ctcaattttg tatgccagcc gtgtgaattc taagcaaaac ccctccgca 420
cctctca 427

<210> 18659
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-D2

<400> 18659

acaagcccct acattgagtc gtattaggag ctttaagtttg tcaaagacat agctgcatca 60
acaggcattg tccttgatcc agtctacagt ggggaaggcgg tttatggatt gctaaaagac 120
atggctggca atccaaccaa atggaaaggc cgaaaagttc tgtttatcca cacaggtggt 180
cttcttgggt tgtatgataa ggctgaccag ttgtcatctt tggctgggag ctggcgcaga 240
atggatcttc aacattctgt tccacgcaaa gatggcactg gtaagatggt ctgatcagta 300
tgggtccatgt tattccatga tcgctcattc ttgcagacat tgtatccatt acagagttgt 360
tactcctaca ttgt 374

<210> 18660
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F5

<400> 18660

cacggaagcg tcaacaccga ccccatcttc ccagcaaca agctcacggg caccgacgtc 60
gggtaccctg gtggcctctg gtttgaccgg ctcggtggg gcagcggctc gccggagaag 120
atcaaggagc tgcgcaccaa ggagatcaag aacggacgcc tacgccatgc tcgccgtcat 180
gggcgcctgg ttccaggccg agtacaccgg caccggcccc atcgacaacc tcttcgcca 240
cctcgccgac cctggccacg ccaccatctt ccaggccttc acccccaaat gaggagtga 300

acttattatt agcattttga ggagtgtctac cacacatgca tcgtcagggt gatggccgat 360
 atatatgaaa cttcacattt tttttggtgg ggaaggactg ctgagtagac tgtcaatgat 420
 ggaatgctcg tgggtgcgagt 440

<210> 18661

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C6

<400> 18661

ctcgcgggtc gacacaagcc tctacactga cgtcctgata ccatcgagaa gcacggcctc 60
 gacgccgtcg cgcgcaaggc cggcatcgac ctcaacaaga agtgagcaag aagtgaagccc 120
 atccgatgag cagccaaact agtgtggggg ggcactagct tagcattcac gttcgcaggg 180
 tcgtctcgtc tgtctgtctg cctgcctgcc tctgtctgtt ctttcgcaat caaacatat 240
 cattatattt cctcccaaga cagaaagag 269

<210> 18662

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F5

<400> 18662

aagactctaa agtgagtcgt attagccgcc ggcgaaacaga gagcagcgag caggtcgacg 60
 acaagccgta gcaaaatcat tgtttccttt catgcatcca tccatgcgta atccacatga 120
 aatcgggtgcg tatgataatc ctgcaatgtc ggcgtcgaac aaggcagctt ttgtagatta 180
 ttttttggca agtgagctat tcacctgtgt aggttcattc aagagagagt ctgtgcgctg 240
 acgtgctgtc taggctagat ccgatcagcg atgatccgaa taagcagctc gtccttgcc 300
 gtcagcccc atgcggccat gctccccgtg gtccgtggat ggagttcttg aaaggttgct 360
 gagaaaacat gcctgattcg cagagacctg gcccggcatg gcaatg 406

<210> 18663

<211> 354

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-016-Q1-E1-G3

 <400> 18663

 gctggaatgg ttctacgtac tcgtcattat cattaccatc ttagatgcaa caactgaatt 60
 acggtcgcat acaaccacgg tcttaagctt cgtctgcacc aacgcatgca tagatcgatc 120
 gaactcacgg gtcaggctga acaaaaatac agtcgtagct aggaataatc gacggatgag 180
 ttcagagcga gaggccggag tcgtcgtcct cgtcgagcgt ggaggtgtag acggtgtaga 240
 gggaccagat gaggccgaag acgcccagca ggatccaccc cagcagggtg ttgctgagcc 300
 ccaggcttag cccggtgccc tccgtcgaca tccgctcgtc caacaacgcc agcg 354

<210> 18664
 <211> 100
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-016-Q1-E1-H9

 <400> 18664

 gttggtcctt acaattccct ataatgagtc gtattacgaa ctggaactgc tgctgtgcag 60
 ctatccactc tccagtgtc cagctctcc aattctctct 100

<210> 18665
 <211> 181
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-G8

 <400> 18665

 cgcgctggac gtcgcaacac cctaaagtga gtcgtattaa gcacttgacg atcagatcga 60
 atcgcaagaa ttctctctt tgggggtagc cgcgtagcgc ccgctcagtc gccggcgacc 120
 acggcggaga aattgcgggg tcacctcgcc tgtgtgtcgt gattacgcga gggagcgagc 180
 g 181

<210> 18666
 <211> 343

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-017-Q1-E1-H3
 <400> 18666
 aagcgggtccg gcggcggtcac gtacgtggag ggcattgaacg cctacagcgg cctcaagggg 60
 ctcaacaagg tgaacatgct cgggggtgcgc aagaccgccg actactcctt cgccaaggctc 120
 gtggcgctcg ttagcccccgc gggcaggaag cggcgcgggcg gcgcggttcgg cgccagatg 180
 aacgccgccg ccgagatctt caggatcgcc gccaccatga acgggctcgt gctcgtcggc 240
 gtcgccgtcg ggttcgtgct gtcgggggtg gaggccgccg tcgaggagtc cgagtaaggc 300
 gcgtgggcct gccactgtcg ggtgtcgccc cgggcccgcag tct 343

<210> 18667
 <211> 173
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-023-Q1-E1-B12
 <400> 18667
 ccgggcccgc ccacgcgtca acagaaccca gccgcaataa tttgttagct accgaatgaa 60
 tgatggtcta cgcttggtga tgagttggtg ctttgcgtg gttttgtgga tgtaataatt 120
 cgatgtacaa ataaaaaaag gggagacaag gtgcttggtc ccttggtttg gtg 173

<210> 18668
 <211> 316
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-023-Q1-E1-C1
 <400> 18668
 caatcacatc caatccattt ggtgtaggaa taaccgaaca aggcctaattg gttaccacac 60
 atttgttcag aaaaccgtcc aaagaaatga catagtaaaa tatttttaac agcacagaag 120
 ccttggtact taacctacac aggatttgct ggattaacac gacacgaatg caccgttcca 180
 accaaataaa ccttcctcac atactgacct gttattatca acattcacgc tacagaaaag 240
 ctcaaatttt ctccactgat ctgactcctt tcccctcaag cttctccatc gctgaagcca 300

aataattgtc ccaata

316

<210> 18669

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E11

<400> 18669

cgggccgacc cacgctcaa gaggaggagc tccagaagga gaacatcaag aacgccgcct 60

cctccaccgg caacatcacg ttgagcgtca ccaagagcaa cccggagacc ggcgagggtca 120

tggcggtctt cgagagcgtg cagccgtccg acaccgacct cgggggccaag ggcgccaagg 180

atgtcaagat ccaggggggtc tggtagctc agctcgagtg attcgagtgt ctaactgcta 240

ggtgtccgac cgccgtcatg gatcttggga aggtgtatgt ataccatgga aaactttgga 300

gagcagagga ggaatcgtgt atgtaatgta cttgttaatg caaattcggg ctgtcgcgtt 360

tttaaa 366

<210> 18670

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B9

<400> 18670

cccacgcgtc cgccgacgcg tgggcatcga caacctcttc gccacacctg ccgaccctgg 60

ccacgccacc atcttccagg cttcaccacc caaatgagga gttgaactta ttattagcat 120

tttgaggagt gctaccacac atgcatcgtc aggttgatgg ccgatatata tgaaacttca 180

catttttttt ggtggggaag gactgctgag tagactgtca atgatggaat gctcgtgggtg 240

cgagtgcgat gcatggtgta cttgtactat gttgtaacca gtgtaaaaag gggatactcg 300

ttagatgtta tgccatgttc tctgaaaaaa aggagac 337

<210> 18671

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H4

<400> 18671

attctgaagg tcaactctgtg tcagttgtta aagctgtgta caccctcggc tccagcagac 60
ccatgcatca accagcatgg actgtggatc caggggtgct gttaccaccg tcaggcttta 120
ttctaagtta aatcccaatg aaaaaaattg tgcttcttgg tgctgcaaat caaaac 176

<210> 18672

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H6

<400> 18672

acgggcccac ccagactgtc aattggtaac cacgctctca tacgttacga atctggggaa 60
gagccttgca ttgcttgtaa actaggcgaa gctatatgcc cacgctcaag cacatacaat 120
tgaagctgaa gaacgtgaat acagcagtcg ccgaaccaca atgtatgata ttgacatgac 180
caaatgcatt tactgtgggt tctgccaaga ggcttgccca gtcgatgcta ttgttgaggg 240
gcctaacttt gagtttgcta ctgagacaca cgaggaacta ctgtacgaca agggaaaatt 300
gctcgagaat ggtgaccgct tggaaactg 329

<210> 18673

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B10

<400> 18673

taggcaagaa ggtgattgac cgcggtgagt ttgttgatga gcccaagcca caacgttcag 60
aacactgtgt atctctactt gccgagctcg acacattcag caaccaacaa gtccagtcac 120
cttcaccatc aaatatgaaa gagcttgcca agaggacact gaaagcatac cttaatgtcc 180
ggcgaggcgt cgagcagctg atgagcaagt aactgtgaa agcatgtggg tactgctctg 240
aggtccatgt tgggtccgtgg ggccacaatg tgaagctctg tggggctttc aagcaccagt 300
ggcgggatgg caagcatgga tggcaggacg cgggtggttga tgaggtcac cgcaccaact 360

acgtgtggca tgtccctgaa ccagtggt ctcctctcag atcctctct

409

<210> 18674

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B10

<400> 18674

agctaactct cttttttttc actctttact gtaatagtag acctcttggt caaagaatca 60

cagttcggtta catcggaagc agcatccgac ttcatcatt cgaaagaatt ataccctcac 120

tgcatacat gataatactt cgccacctta cattcttgaa ttgacggaac ccagtcacac 180

acacacacac caatcagagg tctcaggagg ctggccagggt cttcaggcac agcccgctg 240

agaaaaatga agaatacgtt acgttctata gtctgtgtca atcagatttt tgtgcagagg 300

tgttcgtttt cgagtcagtt tggtagtaca 330

<210> 18675

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D2

<400> 18675

gggcccaccc acgcgtcaag catctggtag gcttctagag tatgagggtg ggggtccccg 60

tgtttgcgtg cagactgcat acggagtaga agttgagggt gaaaataacc catatgatcc 120

tagcttaatg gttttcatgg actacagaga ttgtttcaaa gaggaattct cacacattga 180

acaagaaaat ccactttcc tgtatgctat gccatgtca tccacacgag ttttctttga 240

ggaaacatgc ttagcttcta aagatgctat gtcttttgat ctacttaaga agaggctgat 300

gtatcggttg aacgcgatgg gaattcgtat cctgaaagtt tatgaggagg aatggctcta 360

cattcctgtt ggagggtcct taccacacac agatcagaaa aa 402

<210> 18676

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H3

<400> 18676

gggccgaccc acgcgtccag accaccaggt tggcggttgct ggaagagaag gagctgtcgg 60
cggtgcttaa aacctgtgct cgacctactg gcgtatccag gaagatagta cagcctgccg 120
ctgccaaagta cagttatgca ttccaagtcc ccagagaagc aatcacttct gggatcgagg 180
agaaacccag caaataatgg gāgtacggag gatgaaaagg gagacggcgg gatcccatgg 240
ctgacatttc tgggggttcgt gttcctgatc ttcaactcgg gcatggcgat ctaccgctcg 300
gagcgcgacc ccgggtcaat aacgttcgtg tggggcgctg acgtcgacct gctgctgctc 360
ttcctctgcc ttgcgcggtt cgagcggacg ccgcttgact cgccgcgccg gggggtggat 420
taaggg 426

<210> 18677

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-B8

<400> 18677

gcgtggtgat gtaggtatta gtattacgaa gaagttttat tcaggtcacg agcttattgt 60
cgtaattcgt acaggagctg agtgcgtagc cgtacgtacg ctagccaagt acgatgaccc 120
tgcacaatca cagacataca taaggcacgc aggcaggcac gaacgggctg ggatgccggc 180
cgcccgggct gctcagttag ccctggcgag gaagctctcc ctgcgctcgt ggacctcgcc 240
ggtgcaggtg ttgatgtcct cctcgaccct ggtctcgcgc accac 285

<210> 18678

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: 03-LIB84-007-Q1-E1-A3

<400> 18678

gagctaccta gcaacgcgca gtaagcagcg tgggcaaagc tacgagcgcc cggctagctt 60
cgccatgaac atgggtgggg tgtccccgtc gacagtcggg tgcaagcact gcagcacgca 120

gctcaccgtg tgccccggcg agcgcgccat ccagtgcacg caatgctgcg gcgtgacgcg 180
tataccggcgg cggcgggtcc agcgggccggc ggcggcgccg cccaccacgg gcttccccg 240
cgccccggcg aagaagcggg ccctcctgat cggcatcacg tacgccggca cgcgccgggg 300
ctgcgggccag ctgagggggg ccctcaacga cgtcaagtgc atgaggcaac tcctctggca 360
acgcttcgcc ttcccagcg actgcatcat catgctcact gatggacaga agggaccgtt 420
caggctgccc accatggaca acatccggtt ggggatgcac ttggcggggtg gaggggaagc 480
agcgaggggg aatccctcgg gttccagttc tccggcctgg gc 522

<210> 18679

<211> 647

<212> DNA

<213> Zea mays

<223> Clone ID: 06-LIB84-007-Q1-E1-B5

<400> 18679

cccacgcgtc cgggagacga aagagaaata tgcaggcggg ggcacggggcg gcgcgtgggc 60
tcgcggtctgc ggctgcggct gcgcggccgt cggcgacgga ggcagggcac cgcgggcagg 120
tgcagcaagc tcggggcatc gtggtgcagg tgagggacgg gaatctggag cgggcgctgt 180
cgatcatgga gcgcaggatg cgggccagcg gcatggagcg cctcatccgg gcgcgcaccc 240
attaccacgt caaggactcg gagaagcgcg tgctcgcgcg taaggggctt atgcaacgcg 300
tccgttccca ggagctcggc aagaagctcc gcgagattct catcaagaag atcagggggc 360
agtgagggca tcaacgcatt ggccgtttac cggtagcatt tgtgtgtggg tgcttcgttt 420
tgagcgcgta acaatgctgg gtactttcat cgatggttct gtggcgcagc ctgagaataa 480
ctcaacctac cttgagcaaa aaggcttttg ctatattgca tggaggacag attgatggta 540
aaactattgt ttttttattg gtcaacttag tatatatatg gatttaatta ctgtttgtgc 600
ctgacctgtg tgcatgcaaa tgctgtctga gcaatgtgtg gcaatgc 647

<210> 18680

<211> 575

<212> DNA

<213> Zea mays

<223> Clone ID: 07-LIB84-007-Q1-E1-B3

<400> 18680

cacacgcgac cgcgtacgta cgtagatcga tccatcgatc gctagctagc tgacgaccat 60
ggcgtccctc tcctctgccg ccatcaccgc cccttccttc acggccgcgc ccgctcgcgc 120
agtggtcagc aggaggtcct tcaccgtgcg tgccctctctc cgcaaggcca ctgccaccgc 180
cgccgtggcc gttgccgcca gcgtcctgct tgccggcggc ggcgccatgg ccagaggagt 240
gctgctgggc gcaggcgacg gcgggctcgt cttegagccc agccagttca ccgtcaaggc 300
cggcgacacc atcaccttca agaacaacgc cggcttcgcg cacaacgtcg tgttcgacga 360
agaccaggtg ccgagcggcg tcgacgcctc caagatctcg caggaggagt acctcaacgc 420
gccaggcgag acctactcgg tcaccctcac cggtgccggg cacctacggg ttctactgcg 480
agccgcacca atgagcagga atggtcggca agattagagt caactaaagc tagctatcca 540
ttccatgcat cgcgatttgt atgtacgccg cccgt 575

<210> 18681

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: 10-LIB84-007-Q1-E1-C5

<400> 18681

cgcaagaccc taaagtgacg tcgtactaac gcgtggggcg cgcacgccca caaagcattg 60
aagagaagaa gagaaggac gccgccgcgc gagttcacgt ggacgatgga cagcgccgct 120
cccgttatcg ccaggccgtc gctgcccaag aagccctcgc cgtcgtgccg cctccggaac 180
ggcagcctca acgttctgcg cctgctccgc gtgttcgagc tctgcgaccg ccattgggat 240
ggcgagatca ccctcgacgg agatggccgc ggcgctcgac gcgctcggcc tcggcgccga 300
ccgccccggc ctgcaggccg ctgtgggcga gtacatcccg ggc 343

<210> 18682

<211> 524

<212> DNA

<213> Zea mays

<223> Clone ID: 11-LIB84-007-Q1-E1-C3

<400> 18682

gtccacccag ccgtccgaga aacaaatggc tgcaatacct gcagcgatcc cgggctgctg 60
ctcttcgtct cgctgcctc agcttgettg cctccctgcc tccacaagca gaaggcgctt 120
caaggtcacg gccatggcgc caaaaaagaa ggtgaaccgc tacgacgaga gctggtcgaa 180
gcagtgggtc ggcgcgggca tcttcgcgga gggcagcgag gacgtgtccg tggacatgtt 240
caagaagctg gaacggctca aggtgctgag caccgtggag aatgccggcc tgctgtccaa 300
ggccgaggag ctgggcctga cgctctcctc gctggagaag ctgggcctgc tctccaaggc 360
gaatgacctg ggctgctca gcctcgctga gaccgcggcg gggacgtccc cgctcgctct 420
cgctccatc tcgctgccgc tctcgtggc cgccgtcccc gcggtggctg tcgtgcccga 480
cgactccgtc gcgctcgtcg ccctacaggc cgctcgtcgc gcgg 524

<210> 18683
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: 12-LIB84-007-Q1-E1-C7

<400> 18683

ctcacaggac gacacaagac tctacagaca ctctgaaag gtctgaaata atatacgaag 60
ggaaattgtt tgtattgg 78

<210> 18684
<211> 542
<212> DNA
<213> Zea mays

<223> Clone ID: 13-LIB84-007-Q1-E1-D1

<400> 18684

tccacccacc cgtccgcaca cgcgaccggt acttctctgt cccagcgctt acttcctttg 60
cttctacctc acggcgctcc tgccccatct cggcggttcc tccagctcgc ccatgggtggc 120
gcgcgctgct cccctgcgtt cttccctgca attttcagcc ttcccgcgcg cgccctcctg 180
ctccctggcc gtcgcgccat gccggccgga gctcgtctgg ctgcagtctc cttctccctc 240
aaggtccctc gcgcccgcgc tgctccggtc ggagggggat ttgctgcgcg cccatctaata 300
cctgctcggg tcgtgttgag caccatattg agcgcggacg gtccggccct gaggccggac 360

gggccgcggt ccggacgggc cgcgcttggt ggccggacgg tccgcgcgtg cgcagaacag 420
 attagggggt ccgagttttg tgctacgggt gttagccaaa atcaatgggg ataagcccga 480
 aaattagttt ggtaagggtc cagccccccct catctatgac tacataggta taccgccgat 540
 tt 542

<210> 18685

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: 15-LIB84-007-Q1-E1-D3

<400> 18685

gtgacaaaag aggcaagatg caagacgagt ccgtgaaggc cttcaacctt gctgctaactg 60
 ctgttatcaa caagctgttg atactgattt atcagcatgt cctcactaaa tgcagaatac 120
 ggtgcagttc cattgtttta cgttgacccg aacattggag gaatcctcga gacagattaa 180
 tgcaccagat attagattac ctggcatcag tttgttgect gtatttggtg tatgctactg 240
 tattgtttgt gccaacataa actaaatact gtttgagaat cagatgtgta tatatataga 300
 tagaaacttt ggaacgtcgt ttggattcta ttctgcagaa atcaattgaa ctttagcatc 360
 atatttaaaa aaagaaaaaa aaggagaaaa a 391

<210> 18686

<211> 564

<212> DNA

<213> Zea mays

<223> Clone ID: 16-LIB84-007-Q1-E1-D7

<400> 18686

cattggtcga gattcttaca aggaaaaggc aaagaggact aaatctgtgg acacatcttc 60
 atcagattct gagtttatga cacgcatggg tgatctttct ttggagcgcc tgtcagtgtg 120
 caaacagct gttacaactg aggaaaagaa gttggattca atgaacagaa atgagaggca 180
 gaaattgctc cttgaaaaga agaagttgaa cctagagaaa ttaaggctcg aaaggcagaa 240
 actaaaggag gacaaggaag aggagataat gatcttaagc atggatttga gcaaagttaa 300
 ccctctactc cgccagtact atgaagccaa gcaacaagag atactggcaa gggttactgg 360

gtctacttca tctggccagt gaaggttcct tatttaatat gtttgtttgt catttatgaa 420
 tgaggcgtac tcggacttgt tactgtgaac ttgctgttct cagaccctaa tctggtttgt 480
 accaaaattt ttaggtcgtc tttgaactat ttgtttttta gttaatgttt tgaaccattt 540
 gtcatgggtt gtacctgaag gttt 564

<210> 18687

<211> 486

<212> DNA

<213> Zea mays

<223> Clone ID: 17-LIB84-007-Q1-E1-E1

<400> 18687

cgaccgattt atcaaaccg aaacgtttca gctgacggtt cttatgttga ggttgtggaa 60
 caaggagcgt atagataagg cctccgatgt gctccagtca gtatctacac aagtaaatga 120
 agcttttgaa aatattgact tgtcaatgac aaagatggga gccaaagtga aggttctact 180
 gatgaaatgg actatgacca caaacatgca ccaacaaaaa tgggtgccaa aggctccaa 240
 tcaaattttg gcattgacaa gtcaatattt atcaaaccg aaacgtttca cctgacggtt 300
 cttatgttga agttgtggaa caaggaccgt atagataagg cctcggatgt gctccagtca 360
 gtatctacac aagtaaatga agcttttgaa aatcgaccta attccataca gcttaggggg 420
 tcgacatgca ctaaattggt tccagctaaa gctcgggtgg aatatgttcc aatgctggaa 480
 gttggt 486

<210> 18688

<211> 544

<212> DNA

<213> Zea mays

<223> Clone ID: 18-LIB84-007-Q1-E1-E5

<400> 18688

gtttggtgca gtgctgaaag tagtcattgt cactaatgcc gcaacgggcc agccaacagg 60
 gtctgcctat gtagagttct tacacaaaga atcagctgaa cgagcattgt cgttgaatgg 120
 cacatcattt atgaccgta ttctcaaggt tgtccggcga agttctcatg aaacagctca 180
 cttttatggg tggcctggta gtggacggtc atcaatatat gggaggcatg gtaggatggc 240

ataccaaga gctgttatcc ctggtggttc ctttacaggg cgtgctccga tgaaagctgg 300
 tgctagaagt ttacagtggg aacgggagcc ttcaggcact gattcaagtg cacgtgcgaa 360
 aactgacatg agtgtggcat tttcctctga acaggtgctt ccacgtgcaa cataggggag 420
 tatgttaccg ctgagctgat ataatgagaa ccaagtggta tcccactcgt cgctcctggc 480
 cctaattggct gaatatggac agcaagctga gaagattggt ccttccggct gcactgttaa 540
 gaaa 544

<210> 18689

<211> 645

<212> DNA

<213> Zea mays

<223> Clone ID: 19-LIB84-007-Q1-E1-E3

<400> 18689

gggagatcct gatcgtgcta taaatttcta tgagaaggca tttggcatgg aacttcttcg 60
 caagcgagac aattctgagt acaagtatac gattgcgatg atgggatatg gtccagaaga 120
 caaaaatgct gtattggagt tgacctacaa ctatgggggtg aaggaatatg ataagggaaa 180
 tgcttatgca cagattgcta ttagtactga tgatgtctac aaaactgcgg aagcaattag 240
 agtaaattggg ggacaaatta ctctgaacc tggccatta cctggcatca ccaccaagat 300
 aactgcatgc acagatccag atggctggaa aacagtgttt gtcgataaca tagattttct 360
 gaaggagttg gaagaatgag ctttgctaga gatctcaact tggtagatca agctccatac 420
 ggttgcaccc cgtgagttcc atgcatgacc tgcaaaatct ttgttaagcc aaagcctcaa 480
 actgaggatt gtagataggt cgtccaatct acggcatcat cgcaattgat agttgataga 540
 gcattagatt ttccttgcag attcatatag atgcgcaacc gtttttgtat tatgcatttt 600
 atggcataag ttcaatggaa atgattcatg ggtaagaaaa tcgtc 645

<210> 18690

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: 20-LIB84-007-Q1-E1-E7

<400> 18690

aacacgcgtc cgcccacgcg tccgcccacg cgtccgagggc accacacctc ttcctcctct 60
 tcctcctcct agcacagcta gcgcctgctc cccttcgtct gtgatcatgt cttgcagcag 120
 cggcaagtgc aactgcgggt ccagctgctc ctgcggcagc tcatgcaact gcatgtcccc 180
 tgacgtggag accgccgccc ccagcagcat caagaccatg gtccctcgctg cgccgaccac 240
 caaggccagc gccggcgggt tgcaggcggc caccgagggc ggcggctgcg actgcaacac 300
 ctgcáactgc ggcaccagct gccgctgctc ctgctgcagc tgcaactgag ccggggécccc 360
 cgggcccggc 369

<210> 18691
 <211> 626
 <212> DNA
 <213> Zea mays
 <223> Clone ID: 22-LIB84-007-Q1-E1-F5
 <400> 18691

tcggcggtcca catgcaccgc ctctctcca gcagcaagcg ccgcccgcgc cgccacctcg 60
 ccgcgcgggg gcgggagcag aaccgcggcg tgacgtacat gtctgtccgg tccatggacc 120
 ccgtgcccgc ggtggtgcac ccgtaccgc acagccacgg ccacggccgc cggcgcgcgc 180
 cgtcgaggtc gaggtcgagg tgcaggctcg cggccccgtc gtccctgtcg tgccggctct 240
 tggacccccgc cgccgccgtg gcgagcaagt accagtaccg tccccgcgag gtggagttca 300
 gctgcaagag cagccgatg cacacacgcc ggcgccgct gcgcctgcat cagggccgcg 360
 gccacccgtc ggagccggag ccggagcggc acgtctcggg cgcggcgggt acgatgctgt 420
 tcgcgtcaa ggacgacgtc caggtccagg aggcggcgga cggcgatctg gggctgggcc 480
 ttggcctgga cggccggcg ccgcctcaag tgcggatcac gggctcgccc ttcctggcga 540
 aggaagagga caataaccag gaattgagga gcgcggtggg agaggggcgc ccgcgagttc 600
 aacaagtggg tccacgagca gctgcg 626

<210> 18692
 <211> 283
 <212> DNA
 <213> Zea mays
 <223> Clone ID: 23-LIB84-007-Q1-E1-F3

<400> 18692

cacgccgtca catcgcaaaa cccagcgccc caaagcgacc ccaccgaagc gtcccagccc 60
gaccggaatg gcgatgggac cgtgcgcacc cgcctccgtc tcctccttcc ccgcccgtcc 120
agtgcggacc ccttccgctg tccggcccgcg cggcgcccgcg atccgcgcgc ctgcggcggc 180
ggtggagggt ggaggtggt gggcgccact actggggtgg tccgggaagg ccgactacct 240
tgaggccccg gccccggccc cggcggtgcc gcaggacgac gac 283

<210> 18693

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: 24-LIB84-007-Q1-E1-F7

<400> 18693

ctcgcgggtc caccgaagcc tctacagtca ctctgtctaa cgcgtgggcg aacgctgacg 60
tggaggtcct acaggccgag atggagctgg tccgtgccat ggagaggaac agtgtcaaca 120
acgacggcac tgcggacgtg gaggtgagg acaaggcgct gctgcggact gcggaggccg 180
atctggatgc cgccaagaag gagctggata gcatcaaggc cgggagcttc cagttcatga 240
cgtccatgga cagcgcgcgc accgagatca tgcgggtctc cgaggaagtg aaccggctca 300
aggcgcatga taagaatgcg gactcgcagg ttcagcagct gaacgccaaag ttgctgaacg 360
cgagggccccg gctggaggcc ctca 384

<210> 18694

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: 25-LIB84-007-Q1-E1-G1

<400> 18694

cgcgcgatgcg tccgcatacg cgtcagctca agccccgacc ccgtcgcgga tcgtcacggg 60
tgccggcctc ggcttccccg tcggttcctt gccactcgtc tggctctcct cactgcctca 120
ccctctgcaa catcttctt 139

<210> 18695
<211> 593
<212> DNA
<213> Zea mays

<223> Clone ID: 26-LIB84-007-Q1-E1-G5

<400> 18695

ccgacatcgg cctcagcggc agcgagtacc cggcgcccta cgccatcgtg taccggaaca 60
tggccatcct cggcgtggac ggcttctcgt cgctcccaa gaactgcctc accctctgct 120
acatcttctt cgcggcgccc atcgtcgtca acctggtcag ggacctgggtg ccgaagaagg 180
tcgccagggtt catcccgctc ccgatggcca tggcgatccc gttctacctc gggtccttct 240
tcgccatcga catgttcacg ggcaccgtga tcctcttcgc gtgggagacg atcaacaagg 300
ccaaagccaa cgccttcgcg ccagcgggtg cgtcggggct gatctgcggc gacggcatct 360
ggacctgcc gcagtcatt cttgcgcttg ccaagggtgaa gccgccatc tgcataagt 420
tcttgtccaa gtcggtgaat gcccagggtg acggcttct cgggaagttga actgttga 480
tcgttacgtg catgtatatt gtgtgatgc accacgcgtg ctgtaaaacg taccgggtaa 540
tgttgtgtcc acacgttctg gttttgatgt taaaaaaaa aaaaaaggcg cg 593

<210> 18696
<211> 494
<212> DNA
<213> Zea mays

<223> Clone ID: 27-LIB84-007-Q1-E1-G3

<400> 18696

gaggaacagc taggtgcgga aaggcagctc tcagtctcac actctgcaa tccagcctg 60
agttctgctc tgctctgctt ctagccatgg tggcctcgcg gatcttgctc ccgctgctgc 120
tctccctctt cctatgctcg cattgctgta ccggagcggc ggcggcgaag cggcagctgc 180
tgcaggcgca gtcgcagggtg aagttcgact tctccccgtt cctgatcgag tacaagaacg 240
ggcgcgtgaa gcggctgatg ggcaccaacg tgggtgtccg gtcacggac gcgctgacgg 300
gcgtcacctc ccgcgacgtg accatcgacg cttcgacagg cgctgcgcgc cggctctacc 360
tcccgagctt ccgcgccagc gcccggtgc ccgtgctcgt ctacttcac ggcggcacgt 420
tcgtggtgga gtcggcgctc acgccatct accacgccta cctcaacact ctggccgcca 480

aggctggcgt ggtg

494

<210> 18697

<211> 75

<212> DNA

<213> Zea mays

<223> Clone ID: 28-LIB84-007-Q1-E1-G7

<400> 18697

atgtacatgt gcatctgctc ctcatgtcta tgcatatgac aacgttgcca taacacctga 60

atctttcaat agtgc 75

<210> 18698

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: 30-LIB84-007-Q1-E1-H5

<400> 18698

cagacgcgtg ggcggacgcg tgggtcagct cccatatccg ctcccctacc tctccagcat 60

ctcccgtctc cgtcgtctcg tctctgctcc tcacctcgcc gccagccatg ggcaagatca 120

agatcggaat caacggtttc ggaaggatcg gcaggctcgt ggccagggtc gccctgcaga 180

gcgaggatgt ctagctcgtc gccgtcaacg accccttcat caccacggat tacatgacct 240

acatgttcaa gtacgacacc gtgcacggcc aatggaagca cagcgacatc accctcaagg 300

actccaagac gtttctcttc ggcgagaagc cggtcaccgt ctttggcatc aggaaacccg 360

atgagattcc gtggggtgag gctgggtgctg agtatgtcgt ggagtccacc ggtgtcgtca 420

ctgacaagga caaggctgct gcacatctga aggggtggggc caagaagggt gtta 474

<210> 18699

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: 31-LIB84-007-Q1-E1-H3

<400> 18699

cccacgcgtc cgcggacgcg tgggtccca ataagctccc cagctccacg ccggacgcag 60

cagcagcagc agtagagatg gccgccctcg ccgcctcctc cacggccgcc ttcgccgcca 120
agccgcgcct cccacgcgcg cgcctcaccg tggcctgctc cgccaccggc ggcgacggca 180
acggcagcag cagcagcagc gtgtcgctcg catcctccgt gaagacgttc tcggccgcgc 240
tggctctgtc gtcggtgctt ctctcctcgg ccgccacctc cctccccccc 290

<210> 18700

<211> 550

<212> DNA

<213> Zea mays

<223> Clone ID: 34-LIB84-007-Q1-E1-A6

<400> 18700

cacacgcgtc cgcccacgcg tccgatcgga gtccggcagc taattcaccg gggaaagatg 60
aaggtcgaca gggagatgga gattctgctg aacgagatcc cctcctcca ccacgtcggc 120
ctcctcggcg gcagcgaggc cggcgcggac gacgacgccg acctctcctt cctcatccac 180
gagctcgccg cgatgggcct cgtcgacggc gacgacgagc tgccggcgcc gggcgctgcc 240
accgggtacg gcttccccac gaaaggcgag aaccttgctg ccatgcactc gttctccatg 300
gccagccact acgcgcacat gcgctctctg tttgttcccg tcaccttcca cgacgccgcc 360
gctgccgacg gctgggacat ccggtgctcc ccgccgcctt atgtgcctcc gccttctccc 420
gccacgccta gggcccggcg caagagcgtg aggaggaaga acgggtcggg tgatgacgac 480
gagccccaag aagtgcggag ccgccccggc ggccaagttg gcacggcgaa gaccctggcc 540
cggcctgcgc 550

<210> 18701

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: 35-LIB84-007-Q1-E1-A4

<400> 18701

gacttcttgg tgcccgtaa gatagctcac aagacgataa gcacaccaag cgtgacgcct 60
gggatctctt cgtcttcttg gtgcccgtaa ggatagctca caatttggcg aactgtgtac 120
agttttgtca ttttgtgggc acagatgatg ctcccagtaa tgtgcacaat aaagaaaaaa 180

aaaatcaact cgataaaaaa aaggaaaatt gtgaacaatg gaaaaatgaa aaatacaaaa 240

aaagaataa 249

<210> 18702

<211> 553

<212> DNA

<213> Zea mays

<223> Clone ID: 36-LIB84-007-Q1-E1-A8

<400> 18702

ggaagccctc gctcggcgc ctccggcgt ctcccgccg cgtgcccag tcgcgacgcc 60

ggccggcccg gcccgccgc gcaccgccgc tctcacatc tgcaggcct ccgcgccggc 120

tggggaggag acgccccgc cgccggccgc tccaagaag atcctcaaga agaagcccgt 180

ctactcgatg aagaaagggc agattgtgcg cgtggacaag gagaagtacc tgaacagcat 240

caattatctg tcagttggac acccgccctt ctacaagggg ctggactaca tataccaata 300

ccgcgccgag gtcttgata tcaggaactt cgaaacatga gaatacgccc tgatcgcttg 360

ggtggggatc ccgacgccac cggcatggct accagcctat atgctcatca agtctgacaa 420

gctccactta cagaggatat gattgccggt cggccgggcg gccgggggcc ttgcagggca 480

ccgttacgcc gcccctgag tcatgcgtca ttccgcatca ggagtcggcc aattcaggat 540

gcaccttggt gtt 553

<210> 18703

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: 37-LIB84-007-Q1-E1-B2

<400> 18703

gtccaccac gcgtccaaac tgcaacaagc ccgctcccc tggcctggcc cgacgtcgcg 60

tcacggctca tgcgacgtca tcgtgggccg gacgcgccga tgcgctggtg cggtcggcg 120

cggatgaaggc cgtgcggccg agggacgcag cagacgcgct gggcggctag gggttccacc 180

tgctggacat ccggccggac tgggagcgca cccgcgccag cgtgcagggc tccgtgcacg 240

tgcgctggtt cgtgggggac tacgacatgg gcccctgac actgctgaat aagtgggtcc 300

acttgggcta catcgggctc tggaccggcc aggccttcac caagatgaac tagcgcttcg 360
tcgacaacgt ctccgccacc gtctacggga tcaaggacgc caagcttcg 409

<210> 18704

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: 38-LIB84-007-Q1-E1-B6

<400> 18704

atcccttcta cgacagcgag acgtacagga gccaggggtg cgacaggacc gtgcactggt 60
actacgacag gcaagaggac ctggaggcgt ctgcgaggga ggagctgctg cgggaggagc 120
tgctcgagga gattgagcag agggttgggg gcctcacgga gctgggtggaa gcgagcaagg 180
aggagcagct cacaaagtga tcacgcgggc gaatgggcta ctcatcagct ctctatctga 240
gcttcgttag caaataagtt cagacttctc tttactgcc a tgctcaagtc tgtatatggc 300
caaaacccaa aactattgat caactgcgct actgcactgc aatatcagga tacgtatagt 360
ttttttttca agggaaacag gaaggagtg cagtgcaccc ccgccatac tgcatgttat 420
taatacgaga aagttattta cagagaaagg aggagaa 457

<210> 18705

<211> 622

<212> DNA

<213> Zea mays

<223> Clone ID: 39-LIB84-007-Q1-E1-B4

<400> 18705

cacacgcgac cgaagctttt ggcagtgga actactgctt ctttgattgg cactagtgtc 60
acgaatgcag cgctcaaagc aaagagggt gttgataagg accttgagga cgaagtcag 120
gaaattccag tcgtctcaac tagtggtgcc tatgggtgat acatgtccat ttctagtaac 180
ctcaggtatc agcttctggc tgggtgtgat gagcagagga tgctggagcc gttgctgcat 240
aaccagaagc tactgctgag tgcaatgtgc ttcacgttc gtacgggcaa cacattcctt 300
ggctctttgc tgtgggttga ctatgccaga tggataggcg tccagaagtc tcacgaagag 360
gcctaaagtt ctaacagctt gcctgcatgt tccgctgtca ctgcctcact aggcacgttc 420

acaatacaat cgattgcttg cctgcctcta tagaatgctg atctactctt cactggagggc 480
ccccttatat ataggacaaa atcccaattt tgtttgggaa aacacaagta gggatataac 540
tgtcaaattc tcgtaagcaa cggcaactgc gttctacccc tcaacttttt ttttttcctt 600
tttctacctt tcaacatgca ac 622

<210> 18706
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: 40-LIB84-007-Q1-E1-B8

<400> 18706

cccgggtcca cccaaacgtc cagatgttat caccaaaagg gaagagctcc atgttgtgaa 60
accaacaact tcagttgatg acgcccctga aatgctgggtg aagcatagga tctctggctt 120
tcctgttatt gatgatgact ggaatttggt tggcgttggtg tcagactatg atttattggc 180
actggataca atatcaggag ctggaccggc tgaagcagac atatttcctg acgtggatat 240
cacttggaag acatttcatg agataccgaa gcttttgagc aaaaccaacg ggaagggttat 300
tgctgatgtt atgaccccag cgcctctcgt ggtgcgtgaa acaactaacc ttgaagatgc 360
tgcaaggtta cgccttgatga ctaagtaacg caggcttcca atgggtcgat aactcaagca 420
aactggttgg gatcatttca gaaggaactt tgttcaaacc ggccctcta 469

<210> 18707
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: 41-LIB84-007-Q1-E1-C2

<400> 18707

caagggtgtg aggatgtata tgctcttggt gattgtgcaa cgattgctca aagaaaagtt 60
atggaagatg ttgcttccat attccgagta gcagacaagg ataactctgg cactttaacc 120
gtgaagaaaa taaaatatgt ccttggggac atatatgaga gatacccaca agtgggaattg 180
tatcttaaatt ccaaccaaatt gaagagcttc cactagctac ttaaagactc agatggtaac 240
tccaaggagt tgaaagaact gaacatcgaa cagttcaaaa aggcccttgc tcaagtggac 300

tctcaagtca agatgctccc agcaacgggt caggttgctg cagaagacgg aagttaccta 360
accgactgct tcaacagaat gaatacctgt gaacaatata ctgaggggtcc tataaggatc 420
aaaggtgcaa ggcgccatcg gttcaaacct ttcaggtaca ggcattctcg 469

<210> 18708

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: 42-LIB84-007-Q1-E1-C6

<400> 18708

gacagccaag aggaggcccg ccgcccgggt cacgtacgtg gagggcatga acgcctacag 60
cggcctcaag gggctcaaca aggtgaccat gctcgggggtg cgcaagaccg ccgactactc 120
cttcgccaag gtcgtggcgt cgctcagccc cgcgggcagg aagcggcgcg gcggggcggtt 180
cggcgcccag atgaacgccg ccgccgatat cttcaggatc gccgccacca tgagcggcct 240
cgtgctcgtc ggcgtcgcg tccggttcgt gctgctccgg gtggaggccg ccgtcgagga 300
agccgagtaa ggcgtcgcg cctgcttcat aagccatgat atatatataa cgtgatgtat 360
gctttcgatt caatctttgg aatgtactgt atcaacgatg acaattgatg aatactgttg 420
aaaacatgtt ttcagagccg aggtctgaca ttgatcttca ggcgttcaag aagaaagtat 480
ttaaaaaaag ggcggtcgct 500

<210> 18709

<211> 542

<212> DNA

<213> Zea mays

<223> Clone ID: 43-LIB84-007-Q1-E1-C4

<400> 18709

gcgtacgtag aggacaagta tagccgcgcc ggcgtggaga agggcaagta cgtcgtcatc 60
cacggcatcg cctctgactc cgtcgccaac atgaagtcca gaggcgacga cgactgcctt 120
cttcccctcg ggcactgggc tcagatagcc aaggaaatca gctccggcga cagggggctc 180
aagcctctgt tcgtgatccc tcatgagaag cacagagatg aaatcgagga ggaggtgggg 240
gacgacacaa gcattctgtt catcaccacc ccaggccagc tcacctgcct catcaacgac 300

tctgccggcg tcgtcgcgac caataccgct gccgtgcagc tcgccaacgc ccgcgacaag 360
ccatgtgtgg cgttgtttctc gtcggcagat aatgcaaggc tgttcctgcc atacgtggag 420
ggcaagagca gctgcaacgt catatcttcg gcgacgggga acctgatcga catcgacctc 480
aacgccgtga agaattgtgt gaaagacttg gagccccctc ccagcttctg attggcacag 540
aa 542

<210> 18710

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: 44-LIB84-007-Q1-E1-C8

<400> 18710

aaagattctg gtcttcatcc tttagttcct tacttttctt acttcattgc agacgaggtt 60
acccggagtt tgggtgatct tcctgtttta cttgctctaa tgagagtagt ccaaagtctt 120
ctccgtaatc cacatattca tattgaacct tatttgcacc agctgatgcc atcaatgatc 180
acttgcattg ttgcaaaaag gctagggcat aggcctctcag ataaccactg ggaacttagg 240
gacttctctg ccaatttggg tgccttggtg tgtcagaggt ttggatcatgt ctatcacaac 300
cttcaaaatc ggttaactaa aacattgatc catgcatttc ttgatcctgc caaatcactg 360
acacaacatt atgggtgctgt ccaaggggat atctgcactg gggcccaacg cgattagact 420
ccttcttttg cccaaacttg tgacatatat gcaacttctg gagccgggaa tgcagc 476

<210> 18711

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: 45-LIB84-007-Q1-E1-D2

<400> 18711

cacacgcgta cgatcctaaa cctccttagt cctctcgatc cccatcccct ccaatggcgg 60
cgactgccac gtccttcgcc actctcgccg tcgcgcgctc ggcggggcag cggtcctctc 120
ttgcctccaa agccgcccc tcgcgcgtcc tctccctcgg cggcgcccg cctccctcgc 180
agggcgctct cttatctggg ggctcgcag cgtcaccctc tcatagccgc tcgcgcttgc 240

ccacatcagc tagcggcgag cccaaggaag cagaccttca gtcgaaaatc acaaacaagg 300
 tgtactttga cataagcatt gggaaccctg tgggcaagaa tgttgggagg atcatcatcg 360
 gcttgtacag ggatgatgtt ccac 384

<210> 18712

<211> 123

<212> DNA

<213> Zea mays

<223> Clone ID: 46-LIB84-007-Q1-E1-D6

<400> 18712

aacacgcgtc cgcccacgcg tccgagcagg tatagaggta gccaatgcaa ggccatgatt 60
 gcaacaatgg atacatcaca tccagcagag aactgctgga aagcaaagga accatggccc 120
 ggg 123

<210> 18713

<211> 587

<212> DNA

<213> Zea mays

<223> Clone ID: 47-LIB84-007-Q1-E1-D4

<400> 18713

cacttgcgca cttctacagc ccctctgctg cagcaagaag gaaagaagct agcgcttata 60
 gcttgtcagc catggccacc gccgccgctg ctagcctcct caagtcctcc ttcgcgggct 120
 cccggctccc ggccgccacg cggaccacac cggcgctcct cgtggtggcc accggcccgc 180
 gcggcgcggg cgcgggggccc atctgcgcgt ccatgtccat gtctcctcc aaccgcct 240
 acgacctgac gtccttcggg ttcagcccca tcaaggagtc catcgtgtcc cgcgagatga 300
 cccgtcgcta catgacggac atgatcacct acgccgacac cgacgtcgtc atcgtgggcg 360
 ccggctccgc ggggctgtcc tgcgcgtacg agctctccaa ggaccccgcc gtgagcatcg 420
 ccatcgtgga gcagtccgtg tcgccgggcy gcagcacgtg gctgggcggg cagcggttct 480
 cggccatggt ggtgcgcâaa ccgggggcacc tgttcctgga cgaactgggc ttggcttacc 540
 acgaggccga ggactacgtg ggcatcaacc aggccgggct cttcacg 587

<210> 18714
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: 48-LIB84-007-Q1-E1-D8

<400> 18714

```

caacagcctg acaagtttagc taccgcgcga gcgcgcgcgc ccatggtcac catgatccac   60
cgcatgtgac ccctcctgct ggtcgcagcc aactgctcg cgcattgccg gccctggccg   120
tacagcccga cgccgaagcc gccgcgcct cgcgcgcctg cgtcgtcatc cagcccgctg   180
cctcactcgc cctacacgcc gtcgcgcctc acgccaactg gtaagtgcgc cgtgaacagt   240
ctcaagctgc gcgcgtgctg ggacgcgctc aacagcctca tgcacaccgt catcgcgagc   300
aaggccatcg acaactgctg ccgcttctc tccggcatgg ccgagctcga cgccgcgctc   360
tgcccttgca gcaccatcaa ggccaatgcg ctacgcgtca accgtcgggtg ctccccgttg   420
acat                                                                 424
  
```

<210> 18715
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: 49-LIB84-007-Q1-E1-E2

<400> 18715

```

gtccacgcat ccgtccacac atgcgtccga agactacaaa gcccaaggga aaggcaatga   60
ggaagtatgt ccagaagatg atcacgttgg caaaggatgg atctcttcac aagaggagac   120
aagctctggc atttagttat gagaagcata tcgtccatgc cttgtttgct gaggttgacg   180
acacgtatgg agacagacaa tgtggctaca caaggatcat cccgacgttc tcgatgcggg   240
gagataatgc acctatggcg tacattgagc ttgtttatga ttttccatcc gttgctgtgg   300
cttcattggg gccatgcagg ctgggtgggc tcatgtttgc gcattgtcat ctggagattt   360
gtttctttct tcccttagca agttgttc                                                                 388
  
```

<210> 18716
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: 50-LIB84-007-Q1-E1-E6

<400> 18716

ctcgtaggtc gacgcaatcc tctatactga cgtcctaata actacaaagc caagggcaaa 60
ggcaatgagg aagtatgtcg agaagatgat cacgttggca aaggatggat ctcttcacaa 120
gaggagacaa gctctggcat ttatttatga gaagcatatc gtccatgcct tgtttgctga 180
ggttgcagac aggtatggag accgagaatg tggctacaca aggatcatcc cgacgttccc 240
gaggcgggga gataatgcac ctatggcgta cattgagctt gtttaggatt ttccatcggt 300
tgctgtggtt tcattggtgc catgcaagct ggggtggtctc atgtttgcgc attgtcatct 360
ggagatctgt ttctttcttc ctttatcaag ttgttctgta cc 402

<210> 18717

<211> 533

<212> DNA

<213> Zea mays

<223> Clone ID: 51-LIB84-007-Q1-E1-E4

<400> 18717

cccgacgac acgacaccaa gtcgaggagc tcgagggcac caatcatggc cggcgtgaac 60
tccagcgtcg tcggggtcaa gcccgccgcg gcagtgccgc aggccgccgc cgcctcatcg 120
ccggcggaagc ggggtgcagct ggtcgcgccc gagggccgcc gcgccgctct gctcggcctg 180
gcgggccgtct tcgccgtcac ggccaccacc gggatcggtc aaggccacga tcttcgatga 240
gtacctcgag aagagcaagg ccaacaagga gctgaacgac aagaagaggc tggccaccag 300
tggcgccaac tttgcgcgcg cctacaccgt ggggttcggc agctgccagt tcccctacaa 360
cttcactggg tgccaggacc tcgccaatca ggagaaagtc cccttcagca acgacgacct 420
cgagattgag tgcgagggga aggagaagtt caagtgcggc tccaacgtgt tctggaagtg 480
ggtgaagcac ctagcagcag cgtctgatgg gaattgggga gattatcacc tgt 533

<210> 18718

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: 52-LIB84-007-Q1-E1-E8

<400> 18718

aacacgcgtc cgctcctgga catattcaat ccggagggct ggctggaaat aacgtatcct 60
ctgatttcgt ttttatcact gtgggtctact agctggatgt ttggtttcta tggactaatt 120
ttttgtctat caattttagt tccctgaact aacaaatagc gaaactctgt attttagttt 180
ccatgtgtat ttgttaattt aggtatcact aaaacgaggg gactagtttg gtgtcggcat 240
gtcttctca attttgatgg attaattaac agatatgttg atgaatcgct acggattgga 300
cgatacgaca aagaaaacat attcgtgctg gagatatcag acctgccaga cgtctgatga 360
cgcgcagttc aagcgcacat gagcgatccg taattttgta acgatgagcg aatgtatggt 420
acacgcaaaa tacatagcct gcatgtatag caatatggta tatccgacaa 470

<210> 18719

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: 54-LIB84-007-Q1-E1-F6

<400> 18719

caccatcgct gatgatgctc ttctcagtgg aggtcagaaa caacgtgttg ctattgccag 60
ggcccttctg agggaacct ctatcttact gcttgatgaa gccactagtg ctcttgatgc 120
tgagagtga cttatgtca agagcgtcat cacaaaagtt agtcgagatt cagaggctaa 180
aagaactgtg gtaatcatag cacacaggct atctacaatt caaacagctg atagaattat 240
tgtgttgga aatggtaata ttgtggagga tggtaaacac attgatctta ttgagaaggg 300
tgggtctatat tcaggattag ccagtcgaca aaatgacgat cttaagtagc cctggatcac 360
agaatgtggt ttagtgcacg ccttcttttt aaatggaatg gcagaccgga gaatcgtctg 420
tcattattgg tctctttgca agaactgacg tggaccaag aagctcgaag taatctggca 480

<210> 18720

<211> 630

<212> DNA

<213> Zea mays

<223> Clone ID: 55-LIB84-007-Q1-E1-F4

<400> 18720

cccacgcgtc cgctaaatth cccaaccttc cctttcccct tctcctcca gtccaccgca 60
 tcaccacacc ccgtctccac cccgtacaaa tccaaaagag ggcgaggagg gaaacagatc 120
 ggctggcggc aatcggtagc cggcttggct ggcacgatgg gcggcgaggc cgagggcggy 180
 gagcggcggc tggggcgggt gctgagcttt gggatcccgg acacggcgct ggggctagt 240
 atggggtagc tggaggatcc ctgggaccgc gacgccatct cgctgggtgtg ccgacactgg 300
 tgccgcgtcg acgcgtcag ccgcaagcac gtcacgggtcg ccatggccta ctccacaaca 360
 cccgagcgcc tgttccggcg cttcccgtgc ctcgagtcac tcaagctcaa agcgaaaccc 420
 cgcgcgtcca tgttcaacct catctccgac gactggggcg ggtctgcgtc gccttggatc 480
 cgacagctct cgggcacctt ccacttcctc aagaagctcc acctgcgcaa gaatgaagta 540
 tccaacgaag atatcaacat ccttgtgcct gccaaaggcca catgctcgcc gcgctgaaac 600
 tcgaccgctg ctccggcttc tccagtcctt 630

<210> 18721

<211> 488

<212> DNA

<213> Zea mays

<223> Clone ID: 56-LIB84-007-Q1-E1-F8

<400> 18721

aatacttcaa ctacatgggg atgctggcgg tggagggcac ctacgacaag atggaggcgc 60
 tgctgaacca ggacatccac cccgtggaca tctcctcat gctggcagcc tccgagggcg 120
 accgccccaa gatcgaggag ctgctccgcg ccggcgccag gttcgacgtc aaggacgtcg 180
 acggccggac ggcgctcgac cgggccactg acgagaccag agagttcatc ctcggttcg 240
 ccgccaagaa ggctgaacg accatgtgca ggtcaatcgt gcccggttct tctggacatt 300
 tggtgcatg taactaaatt cttcgttttc tggaatctgt ggagtgttca accgggggtg 360
 aacaagctgt ttgcagaggt agctttccgt agtcagctgt attcttacgg aagactgatg 420
 ggtgtactgc gacctgcaa attgctcaac taagggcatg ccttggttga gagctggcca 480
 attactga 488

<210> 18722

<211> 445

<212> DNA
 <213> Zea mays
 <223> Clone ID: 57-LIB84-007-Q1-E1-G2
 <400> 18722

```

ccccgcgtc cgccacgcg tccgcccacg cgtccgcgga cgcgtgggcg ccgcgtcgct   60
ggcgggatcg actgccacgt gtggggcaag gccggcttca tcttctacta cgaggaggcg  120
cgcacggggc ggcccgtgcg ctgggacttc gtcgacgtga cggggatcca gcagttcgctg  180
atgagcttcg agcccggagc tgcgctggag gacgacgcgc agtggcaggc acctgcatac  240
tgcttcccgg acgacgacga cgccgcaagg agcagtgggtg aggaggaagc tggggatggg  300
cttgatgcgg cgaccagatt actcacgaag ctagcaggag ctgcagcaac gcattgactg  360
tgttgtgttg tagtaataat tacgatgcga catgtaccgt attaatttcc agcacaacag  420
atatgcttat gttcctgtag tacta                                     445

```

<210> 18723
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: 58-LIB84-007-Q1-E1-G6
 <400> 18723

```

cattgatgtt ccgggtgctc cttagtaagg ttattgcgga tgttgtctac caatggatgt   60
tgagtgccac aggcttgaaa cgagttatgg agaccaagat ccagacgccc atgaccacag  120
gaaagaacga gggacatctg gtgctggctg aagaaccatc gacctgatg gtactccagg  180
cggcagtaaa agaccgaacg attcagctca tgttcaccaa gtttgtgagg gagttgagag  240
aggagcccgt cttgatgatt agggtgagct ggaacgtgtt cctcatctcg gtctcatctg  300
ccgctgtagg cctgcaccgt ttcttgggtg tcttcttgaa ggaggatggg gccagattct  360
tggatgacaa aggcaagaaa atgaggattt ggctgatcga tttctccaag cgggcggtta  420
atctgggaga ttcaag                                     436

```

<210> 18724
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: 59-LIB84-007-Q1-E1-G4

<400> 18724

gcctgcctgt aacggtccta gattcacgga tccacccagt tgccttcag gctgtatgca 60
gcccgggatt tttggaacc tcaatgagcg gcggactttg tggacctgct gatgcatctg 120
tccggcagta tctcggtcga tatctggatg tccacggagc ttcagtatct gtacctccaa 180
cgaaaccagc tggatggta tgcaccatcc aggttcttcg atctccagct gcgtcactgt 240
ttcacctcac ggacaatcgc atcaccagaa gagtcgcacg cgcattcata aagctctata 300
agcactctaa tctgtctctg gagcacaaca gtcttcatgg gat 343

<210> 18725

<211> 664

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: 60-LIB84-007-Q1-E1-G8

<400> 18725

cccacgcgtc cggccgctcg ggacgatcgg gaacctcaag gcgctgcgga cgctgtccct 60
ccgcctcaac gcgctgtccg gcggcatccc ggccgacatc gggagctgca cggagctgcg 120
gcatctgtac ctccaaggca accagctgga tggacaggta ccggaggggt tcttcgacct 180
cgggctgctg cagcggctcg acctctcgaa caaccgcacg gccggcgggg tctcgccgga 240
attcaacagg ctccagaggc tcgctactct gtacctggag aacaacagcc tgaatggcac 300
gctgccgtcc aaccttgacc tcccgaagct tcagcttttc aacgtgtcca gaaacaacct 360
caccggccct gttccaaagt cgctcgcccg gatgcccgcc agcgcttttg atgggacagg 420
gctctgtggt gacctctag ccccggtgcc aaccctccg ccgcgcgcgc agccgcctgt 480
tccggccgct gctaattgta gcatcagcgc gaagctctct actggtgoga ttgccggcat 540
tgctgcnggt gctgccgtgg cgttcttggt tctgatcgcc gttatcttgt tcctctgctt 600
tcggtgtcag aggacaatgg gcgaaaaaat ccgccgagac ggccggcgac gcggacctgg 660
acgg 664

<210> 18726

<211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: 61-LIB84-007-Q1-E1-H2

 <400> 18726

 tccacacatg caaacgcgtt cccgttcact gccgacaatt tggaaatgca agaagctgtg 60
 cctggcagtc gatctccttc aacgtcaagg ccggaggcat ctccaacaac accccgacct 120
 agttccagag gaccaatctc atgatccacc gcacgtaaac gcagggagag atctagggcg 180
 cgctctacgt ccgctccgag cgcacgctca atttctacga gaacgactgc atcgactacg 240
 ccgccgtgac cgtgctcatc acgggggggca agctcgttac gttcctcctg aacatcaaga 300
 agctcatcgg caccctgaag tccaacattt t 331

<210> 18727
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: 62-LIB84-007-Q1-E1-H6

 <400> 18727

 gacgctgcga tgctccctgc gcagtcgctt gtcgccccaa ggtccactcg tggcatgcat 60
 gcccaacgtg cgacaaatca catcggattc atcacaccag agatccagtg tagcaggaag 120
 ctaacaatgc attagaacga ggattccgcc actacacggt caaatggaga catcatcaac 180
 gaaaggcaca cccatcagca tgaccaccaa cacgtcggat caccatcagt atgccgaaca 240
 gcttcgataa cgctggatat ccgcactaag tggtcgatcg cctcccctga tcgcagtgac 300
 cgagcatact tcgacagtag gcaaagtgct ggcaaccggt tgggattcaa tggtaaccag 360
 atctgagaaa tgtcccaagc tgtgcaaaac tgttgtccca tacagcagaa gagcaattta 420
 catacacgcg aatacatggt tcccc 445

<210> 18728
 <211> 575
 <212> DNA
 <213> Zea mays

 <223> Clone ID: 63-LIB84-007-Q1-E1-H4

<400> 18728

ccggtgttcc tttcccgcat tttccagctg cccatatgaa tcacccgatg tacaaggctg 60
cagatatacc aggacatcaa ccaccaccat ctgatgagta tcccagagaga cctggccaac 120
ctgaatgccca gcatttcggtt aagagcgggtt tctgtaaata caggatgaaa tgcagatatc 180
accatccaag gtcgcgccag tctgcaccac caccagcagg tcttagcccc atcggcttgc 240
ctatcaaacc tgatcaacct gtgtgcactt actatggacg ctatggcttc tgcaagtatg 300
ggccagcctg catgttcaac cacccttca acttcggggc tcccggtgccg gcagcaggac 360
caccctccc tgggcagtag cctacgcatg gaaacttcgc ctagcaggca cgtgacgagc 420
gattttctga gtcgccacga ttgcttgtaa taacctctc cacctgtaaa gtagcgtaga 480
caaaagctgt acgtggttgg cagtagacat ccagcatgta agcgcaacga agttgcatgg 540
agatgggtac gttacagttg gtattgcaaa cttta 575

<210> 18729

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C10

<400> 18729

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaa 64

<210> 18730

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C8

<400> 18730

catccagccc ggcgccgccg ccgacctgac cggccagtgc gaggtgggag acaaggtgct 60
ggccaccagc tccgtcttcg ggg 83

<210> 18731

<211> 84

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB84-001-Q1-E1-D2
 <400> 18731
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaa 84

<210> 18732
 <211> 194
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-E8
 <400> 18732
 aaagacgcgt gggcggacgc gtgggcggac gcgtgggcgg acgcgtgggc ggacgcgtgg 60
 gaagcaaaat tctgcgggag aagatgtatt ttagcatgtt tttaaccttg gggtcagact 120
 ctttcgctgt caaaaaatca aaaaattaca gacgaatcac gaaaaactaa aaaacatata 180
 tcgagagctc caaa 194

<210> 18733
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G1
 <400> 18733
 gtctcactat ggtggagggc cgtagatta ttgtttttga tactacgatg ggggagcaca 60
 tagccaccca gaaatattca ttgaagacag acgttagtc cctatattgt ttatgggtat 120
 ttctgttttag acaaatttag tatcaattta atctataaaa tttattatgc aagaacaatc 180
 tattggaaag gtaaagttaa ttaaaaaaaaa aaagaaggaa a 221

<210> 18734
 <211> 181
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H1

<400> 18734

cgacccacgc ctccgaaatg atatagctta ttacattttc taccactttt cattcctaac 60
gctgagcttt ttatgtacta tatctcatat tattattcat catataagat atagtacata 120
aaaagctcag cgttaggaat gaataataat atgaccgcct tgtgatctaa aaaaaaagga 180
a 181

<210> 18735

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G4

<400> 18735

ccatcacatt caagaacaac gccggcttcc cgcacaacgt cgtcttcgac gaagacgagg 60
tgccgagcgg cgtcgacgcc accaagatct cgcaggagga gtacctcaac gcgccaggcg 120
agacctactc cgtcaccctc accgtgccgg gaacctacgg cttctactgc gagccgcatac 180
aaggagccgg aatggtcggc aagatcaccg tcaactaatt aagctagcta tcgatcgata 240
tccattcatg tattagctgt tgcttcctgc tttgtactcc gccgatctgt ccatctctac 300
atgttttcgt cttcacacaa caacctctgc tacgactacg tatatatgca tgctacgagc 360
tgattgattt taacgagaaa aacaac 386

<210> 18736

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G5

<400> 18736

agagatcacg ttaaataagga gagctaccgc tgggacttgg tggtttgtaa tatatgatcc 60
aaccagtgat gaatcaatgc attcacttgt gtacacatat acatttctac cttgcataag 120

<210> 18737

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H10

<400> 18737

gcgccccgtc gatcggcgac ccggatggcc gtcgtccggg cgtcgtccgc gcatcagaag 60
cagcaccgga ccaaggagtg tgcggccgag gcgcccgctg cggcggcgct ggtgctgccg 120
gaggtcgcgg aggcgcgcgc cgggatctcg ccgtcgtctc agaacttcct cctcagcatc 180
gtctccggag gcgtcgtgct cgtcgccatc gtcggcgccg tcgtcgtgtg ctctaacttc 240
gatcccgctc agcggcgctg agctcaatca actacacgtg cacacatgca tgcagcgctg 300
tatgttgcat tgcattgctg acgcccctg tacctatgta ctacttccca atgtaaacag 360
cgtttaatct gtgaaaaaaaa acacaaaa 388

<210> 18738

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C4

<400> 18738

aaagtcactt gggctatcgg caaggagtggt gctgaccttt ggcctaggat cgccagtgca 60
gcaaattgca tcgtttgaga gcttggttga atgtgttttag acttgagtat gatcatctca 120
attgtgtgtt gcaggtgttg taagggtgct attggacttg atggctcctt ttatgttttg 180
tcaactcaatt ctgtagtga cagaaatttc tgggtgcctc 220

<210> 18739

<211> 58

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C9

<400> 18739

aaccacgcgt caaatatata gaagatggag agtaaaaaaa aaaaagaaaa tatataat 58

<210> 18740

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D8

<400> 18740

accacgcgt ccgcccacgc gtccgggcaa acaagttgaa gcaatctctt ccccaggtt 60
tgaccgtcga ggaggtctga ttggatacat ggcaacgccg agttgaacta cccaagcttc 120
tttatcagta gcagagcatg ctactctatg tacttttggga acctaagcta ttagacctgt 180
cagtgttggga tgtctggatc ttgcattttt ggagaaatac caatttacct cgttcaagga 240
tgcaagtata tttcttgttt aactgcacat tactttatat ttatgcctgt ttcataacag 300
ag 302

<210> 18741

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G7

<400> 18741

actctaaagc gcgcctcacg aagatgggggt cgcacatgaa gaagaccatc ttcgaggagc 60
agacggccaa ggcggtcatg aactggcgca agacggccaa ggataagggtg cggcagcggg 120
aggcggcagg cttcctcgac gtgctgacga gcgccgacac cagcccgagc cacagccgcg 180
cgacgtcgcc gagccggggc aactcgccgg tgcacctgct ccacaagtac aggggcacgt 240
cggaggagcc gcagagcgcg ccggcgctcg cggggcgggga gctcggggac atgtaccggg 300
tggccgacca acatcgcttg caacaggctg gacccc 336

<210> 18742

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H9

<400> 18742

tacgtggtca acaagcacgc cgcgtcttc acgtccacgg tcatgagcct gtcctggcg 60
cgccccaacg tcaagctgtt caacgccgtg gccgtggagg acctcatcgt caggggaggg 120
cgcgtcggcg gcgtcgtcac caactgggcg ctcgtgtcga tgaaccacga cagcagtc 180

tgcattggacc ccaacgtcat ggaggccaag gtcgtgggtca gctcctggcg gccacgacgg 240
gcccttcggc gccaccggcg tcaacagggt ccaggacatc ggtatgatca gcgccgtgcc 300
cgggatgaag gcgctcgac 319

<210> 18743
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A3

<400> 18743

gtcagagaat gaacttaact ccatggtagc tttaatagat tcaattcgat caactgaaaa 60
agctcaaaaag acttcaagaa gtgacgtttc caaactttcc aaagatcttg aggaggcaaa 120
tgaattgaat gaagacctga tatcaciaat ttctaaactc cgacaggaat ccaatgaaat 180
gcacgtacat atcactaata aactaggaca ggcacaatca ctagctaaag ctctgtcaga 240
agaattggct tcaactacatg aaatagctca gaacggacaa caataactcg aagccacctc 300
gattgagctg gcatctattg cagaagctcg taataacttg aagaaagaac tgctggctgc 360
gtagaacaat ttgcagtcaa ccacacatga gcttgt 396

<210> 18744
<211> 76
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A7

<400> 18744

accacgcgtc cgctaaaaaa tactacaaat aatccaaaaa agtaaagaaa taaaaagata 60
atacatcatg ggctgt 76

<210> 18745
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B10

<400> 18745

atagctctgt acaggtgatg gagatcggtg ttgcggattc ttatcgtctt cctgggtaca 60
tacttacatt attgttatga tctgatcagc ggtaggtttt gtatacgctg ctcatcgatt 120
cgtctgcctg ctattttcgt atatcgatgc acttggttta ccagttgctt tcgttcaaaa 180
aaaaaata 188

<210> 18746

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B3

<400> 18746

cccacgcgtc cgcccaagcg tccgcccacg cttcagcggc cgcatgagat cggcctcatt 60
caccatcacc acccgcacca gacactagca tactcgacca ctgatacagt gaggggagca 120
ctccgcagcg attgcccgtt gaagcgccca tggaggcacc acctactgtg gctacagcat 180
cccgcacata caggcgctgg cacatcgctg cctgcaatgg cctccgcgcc gtgatgtgga 240
tctgggtttt ccacacggct aagcaggatc gggccttagct cttgggtttg cgtcatccct 300
gggatggaca tgatgaccac tctcatggtc atggacacag gcatgaagca tcatcatcgg 360
catcttcaca tttagttccg tactggctgc tgacgatact ttgcatgttc 410

<210> 18747

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B5

<400> 18747

tgtttttttt tttttgattt ttgttttttt ttacttcttt tattctcata ttttttttat 60
tctgatatta ttttgtatat ttctcatggt ggaaaaggag gtaagaaaat gacagcagag 120
ggaaccgcac ggaaaaagca gcatgccagc ggaaccaag tc 162

<210> 18748

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B9

<400> 18748

atgaagcttt ccttgagaa catccttatg gcataccgga gagccaagac acgggcaatt 60
ctgctggact acgatggcac gctgatgcc aaggcgatta acaagagccc gtccactgaa 120
tctgtgcgga tcctgaacag cttgtgccga gacaaggaca atgtggtgta cctatgcaac 180
gggtatgacc ggcgcaccct tcatgagtgg ttcccttctg agaaccgtgg catagccgct 240
gagcatggct acttcctgag gtgtaagagg gaccgcgaat ggaagacctg tgcgctgcc 300
acagactgca gctggaagca ga 322

<210> 18749

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D4

<400> 18749

cctagagcac acagttctgg gcttctggca aactatttcc tgagacgttc atcatttcca 60
tcacagaaca ataaagctcg ggtgccttca gttgatttcg acgtacattt ccctgccgat 120
ggtgtccagc cactgttgt cacaggcgaa cacgctcggg tttagacttg tgatgtctac 180
tactgttttg acactcgttg taattctgta tctcgcgtca gactgtgata tataagcagt 240
acactgtgtt tcttgcaaac gcctggaacc ttttgtt 277

<210> 18750

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G9

<400> 18750

tacaccctaa agtgagtcgt attaacccgc gccctttttt ttttttttg tttatttgtt 60
tttttctggg tgaaaatgtt tgtaggataa ctttcggcag actgggcaga accgggtggg 120
ggctcgcgag ggtgttggga agctatctag c 151

<210> 18751

<211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-005-Q1-E1-A9

 <400> 18751

 aggacgcgtg ggcggacgcg tgggcggtc ggccctgggcc ggctcacgcg cgttcgggtga 60
 ggaggaccgt cttccagggc agttttgtct attggatgat ggggcgcgga cagggttagcg 120
 acggcgatcg cccgggtggt ataacaacag ctgctctgcc tgccatcagc caaccgctaa 180
 tctacggggg gcttcattag tacgtaaaag ggcctcaca cttggtatac gtaaaagata 240
 tactagttat taatacgta aaggattgag tatacggcac ctagatgttt catttgtaca 300
 cgattttcat tctcttctcg accatatatt aatagtaatt aaattaaaaa agcacaaaaa 360

<210> 18752
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-005-Q1-E1-C2

 <400> 18752

 gcccaaagac aaggccgccg cgctcaccga gggcgacgtg ctgccttct gcagcaagcg 60
 catggcgcgc ttcattggtc ccaagaaggt ggaggtcgtc ggagcactac cgaggaacgc 120
 gcttggaag gttgagaagg tcaagctccg ggaggcggca cgtaagctgg cgccacagt 180
 agcagcggcg cagaagccca aggcgaagac gacgacggtc ggcggtcgcc gccacgacca 240
 accggtggcg cacgtcatgg cgggtgtcaaa gctataggta gcagcagcac acagcgccgc 300
 tccacggcac agctagctcg tgctacacag taaacttctt ttgccaataa gttttggagc 360
 actcaaacat atgacatgcc aaagctcct 389

<210> 18753
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-005-Q1-E1-F5

 <400> 18753

aactcattcc ccgcaaaata aacccccgaa aagcaggaga agcgagaccc ggaagtggaa 60
agctaagggtt aagggtcccaa ctccccgttg cctggggcaa cccaattatg gccgcccctg 120
ccccctccgg cgcaactaat gccgccgct caacgtctcc gctgatggaa ccgccgtctc 180
cgttc 185

<210> 18754

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B12

<400> 18754

gaaagaaaat agggtaaacta aacaatatat ttggcaagtg ctatcaagaa acaaataagaa 60
ggaaaaatac aagaagcaag ttgtttggcc ctgatcgag gacctattgg tgagctgatg 120
tttccgtgag taatgtaacg acagaaaaaa gaagcaacta ctacataaac tatttataga 180
agcggcagat tcacttcata ggttgtagca actgtcttta ctaaaagtgt gtttggtttg 240
aggaatgaag tgatccatct tcttctcaag aaaagatgga aagagga 287

<210> 18755

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D12

<400> 18755

acacaaggcg gaagctcagt ttggaccaat ggctccatca cattgccgtc gcgatataca 60
tgacaggtgt gccatgttgt ccctgatcca tggcagacca tcagcgatat ccgcagcttc 120
aacgcggatg accactgaat ggcacatagc aagcatgcaa gctcatctga cctgcgtctc 180
tttaccttat tggaaagcat cactcac 207

<210> 18756

<211> 79

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-H4

<400> 18756
 ggggtccatcc aaacgtccgg attaattgca tgcattgcata tcattagaga caaggaaaaa 60
 agatagatca acacaaaaa 79

<210> 18757
 <211> 116
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-007-Q1-E1-C10

<400> 18757
 aacacgcgtc cggtagcagc cagttcgttg taaattacaa ataaatatta caagtaataa 60
 gaaaaaacac ggactttacc tgtaaaaaaa acaacaaaaa cacaaaaaac aaaacc 116

<210> 18758
 <211> 88
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-007-Q1-E1-G9

<400> 18758
 aagttcatgt gcatctgctc ctcatgtcta tgcattatgac aacgttgcca taacacctga 60
 atcattcaat agtgcaaaag aagaagac 88

<210> 18759
 <211> 324
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-008-Q1-E1-A10

<400> 18759
 gctaaaactt ctgattaagt gattataaca gtctatgggt atagttgcat ttacaactat 60
 acgtctagta aaaaagataa gttttgggct atgtatgact atttcttgta atcaattatg 120
 cactggttct tgcactgttc atgttcagaa cacatctggg gagggccggc tgagcctctc 180
 gtcctccagt agctcgtatg gattaatgta cgggtggcagc gacaccggcg tcttgcttgc 240
 atcgtgtaca aaactcggtc caaagtacac gtataaaaca gcgaaaaagg agacggtgac 300

aagaatcatg ggcccaaacg ctag

324

<210> 18760

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E1

<400> 18760

aaataaatca aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaa 94

<210> 18761

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F5

<400> 18761

gtttttgttt ttttttttgt tttttttgtt tttttggttt ttgttttttg ttggttttgt 60

ttttgttttt tttttttttg ttttgtgata cttcaagtaa atgattgtta gggaaaatct 120

ttacagcaca tgacgccgag acacattacg tggcttaaag gcgcgcgctg gcgcgcgcga 180

gggactaggg caggtgcaca cacggccagg ccgagcgacg tgatcga 227

<210> 18762

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-B7

<400> 18762

aaaaaccaat gcctgtttca aataaaatgt cctccaatgc tgatgtcgtc agatccagca 60

agacaggaaa ggatcctgaa gaagaaaaga atcaaaattc cagcagtgat attagtga 120

acatgataaa agaagccagt gaccaaagg catcttagtt tagaaagaaa tctgatactc 180

gtaacttaca acgaggtcgg cgtacttttg aagaagatct caagcgtcag aacaaagcgt 240

tagatgcgta taagaatttt agtacgacag gattagacaa gagtttgcaa gaacctgcaa 300

atgggacacc gaagaacgac aa

322

<210> 18763

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-C9

<400> 18763

acctcatatc atcgtggacc acttaatata tggttacagc agatgcaagc ggatgaacca 60

agatgcacgt agacacacct acgtacatga gcacaacgac tgacgccaag cttgcaaaga 120

gagatagcat cctggccagt tcggtgtctc tctctctcac acacactaca caagacttac 180

gcccggc 187

<210> 18764

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-D11

<400> 18764

cgcaggacat catcaacctc aagccactca tcgacaagaa ggcgtggccg tacgtccaga 60

acgacctccg cctccgggcc tcctacctgc gctacgacct caacaccgtc atcgcttcca 120

cgcccaagga ggagaagcat agcctcaagg atctcaccgg caagctcttc agcactatcc 180

acgatcttga ccatgccgca gagatcagga tcaccccgga ggccgaaaaa tacgtcggag 240

cagccataga tgcgctcggc gacgtcctcg ccaatctacc ctagatggaa gctaaaagat 300

cggttaacga tggccaccta atttcgggac ttgtgtttgt tcatatgggg ccg 353

<210> 18765

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-E10

<400> 18765

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

<210> 18766
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-E11

<400> 18766

tcgggcttgcc ccgtcgattt cgccaacccc tcgacccgat cgactccatt gatcgtagct 60
 cgtcgtccgg ttgtcgatgg ccaggacatc tttcaaaatg gagcacgatc tcga'gaaaag 120
 gcagtccgaa tctgccagga tcagggataa gtatcccgac agaattcctg tgattgttga 180
 gaaagctggc aaaactgatg tccccgagat tgataagaag aagtagcttg tccctgctga 240
 tctcactgtc ggccagtttg tctatgtggt gaggaagaga atcaagctga gccagagaa 300
 ggccatcttt gtcgttgtga agaacacctt ggcaacaact ggctctttga tgtctgcaat 360
 ctaagacgag aacaaggacg aggatggctt ccttt 395

<210> 18767
 <211> 67
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-E9

<400> 18767

gcagcaccat ggcggcgggg acgagagcgc ctgcggctgt gggctgttga cgatggccca 60
 gggcttc 67

<210> 18768
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-F10

<400> 18768

tacaatctca gtagaggctc cgtagctggc attcttacac ttgatacagt ggcagactat 60
 cttccgagaa ggggaccctt gaagcagaga aggacaggta ttgcgtatat agcaaactgc 120

gcggtgcgga aggaggagcg acggaaaggg atcgcgaga tgttggtcca agaagcagag 180
gctcgggcaa ggagctgggg atgccggtcg atggcactgc actgcgacgt aaacaacgtg 240
gccgcgctac gcctgtacag aaaccaaggg ttcaagtgc tacgagtgcc ggaaggagct 300
aatggcccg aaccaagat agctaaagga gcggagtaca cttcatgat gaag 354

<210> 18769
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-B1

<400> 18769

accacacgtc tgcaacggcc gatgcggtga accggcacct ggacatactg cggccagcga 60
tcgcgaacta ctgcgggagc gtggatgtgt tggccgtcga tggcgaggac tgcctggtga 120
ggtacgacgg gccggaatcc atcggcagcg gtatcaaggc ggccatcaag gagaaattcc 180
cggacatcac cagtgtggtg ttaccctgt aaaacaccga ctggggctat gcatattcgg 240
ggcagtccac agcagatgaa catgctgac gaacttcata cttgtaattt gcaaagattt 300
ttgtgttgaa aataaaaatg tcccgcaaaa 330

<210> 18770
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-B7

<400> 18770

cgggtttcta ggactgattg catgctcagt accactgcta cattcccaa aatcagctgc 60
tcctggcctc taaggtttaa gcgcaatgat gttgttgtaa gagcaatatt ggaagagtgt 120
ggcccgcagg ggcttcccat tgatctcaga ggtaaaaggg cattcattgc tggagttgct 180
gatgataatg gctatggatg ggcaattgcg aaggcacttg ctgcggctgg tgctgaaatt 240
cttgtgggta catgggtgcc ggcacttaac atatttgaga caagtctgag gcgtggaaaag 300
tttgctgaat cacggaatct gccagatgga tctcttatgg atattgtgaa actctagcca 360
cgtgatgc 368

<210> 18771
 <211> 123
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-012-Q1-E12-F8

 <400> 18771

 atcatgccat ggaggtgccg ctctccccag cgcgggcgca ctacaggatc cactgctgca 60
 gctccatgca cgtcatcgtc gggctccgct cgaagtccgc caccgttccg tgcagcggtt 120
 cgc 123

<210> 18772
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-A2

 <400> 18772

 aagcctctaa attaactctg agcagttaaa caatgtcatt gtcaccatcg atatgttggt 60
 tgtttgctcg ctggagtgtg tgaggaattg aagtttcaag acgggaccag aatgggtggg 120
 acgtgtttgg tttgcgtttt tagacctggt ctgtctagcc agctatgccg ggctgttgct 180
 tgcaaaaaaa aataaaaaaa aaaaaaaaag gaacataaaa acaaaagcaa catcaaataa 240
 aaggaaaaag caaatacaaa gaacatatca agcaaaaaac aa 282

<210> 18773
 <211> 195
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-D3

 <400> 18773

 aagacacgtg ggttttgctg ttatacagct tcgtgtcatt tagtttccaa aagctaccgt 60
 gcctggactg ttagagatgt ttacgcaaag tttctttgga agaagatcca ctcagacacg 120
 tgtaattggc tcacacgggc tcacgaaatg tagttatggt ctatggaaat ttaccatggt 180
 gctaagaaat caagc 195

<210> 18774
 <211> 54
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-G9

 <400> 18774

aaaaataaaa aacaaagaaa aaaatcggca gaagaaaaag agggacaaaa acat 54

<210> 18775
 <211> 79
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-H2

 <400> 18775

attgtattcc tcacatgtac aacaattaat gcaacaaatt aagtacgtac ttgagagaga 60

aaaagatggg aaaaggaaa 79

<210> 18776
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-H8

 <400> 18776

gctccagtga gatcctccga tacaacggcg tcagggtcac ctactgaagt gaagtgggtga 60

acaacaaacc agtcagagtc agagcaagca ccagccgaca agcaacgctt cgatacaaaa 120

ttgaagacga taaaaaattt tagattactg cgacgtccat cgacgattgg tcgatgttta 180

gactgtttat tgtgtaccat taccatactt gcccggttaat cgctactatt caatagtaat 240

agtaggcttt tgtagggcta gcagctgctt gctgctttgc aactttaagc ttgtttg 297

<210> 18777
 <211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-014-Q1-E1-A10

<400> 18777

aacatcgtta atcttatcgc ttgctactat ctagttaggca cacgttcttg ctgcttgagt 60
ttagatctgt tacgaaaagt aagcagttgt tgactgcttt tctaaccggc atttctccaa 120
gggacgtgcc cctgcacgat ccccttgtac ggacgtgggt tttggccact ccttttagtgt 180
ccctttcctt tgtagaaata tcaaaagcaa taaaggatat ggtaccctt tttcaaaaag 240
gtacctcgaa actaaactgc 260

<210> 18778

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A4

<400> 18778

aacggatgcc agacaaattc agcaaacaag caaaaggcac gaccaccacc gccggccggg 60
aagcaagctc ataccctaata cgccgtccgc cggcgacgcc agcacgatgg cccgctacga 120
ccgcgccatc atcgttttct cccccgacgg ccacctcttc caggtggggg acgctctcga 180
ggcgcgtccgc aagggcaaca ccgccgtggg cgtccgccgc acggacaccg tcctcctcgg 240
cgttcgagaa caagtccaca cccaagctcc aggactccaa gtccgtgccc aagatcccgt 300
gcctagacac tcacatacct ctggcgtgcg cgggggtgaa cgctgacgcg cgcgtgctca 360
tcaaacgcgc gcgggggtcca gtgccagagc caccgactca 400

<210> 18779

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D2

<400> 18779

aggacacgtg ggcttcgttc gtctcgtttg ttgttgccca tctgtgtttt tgattgcaaa 60
gtcgtctctgt gtcagttggt agtgctgtgt tcatcctcgg ctccagcaga cccatgcatc 120
aaccagcatg gactgtggat cgatggatgc tgttactcct gtcaggattt gttctaagtt 180
aatcctaagg aaaaaatggt gcttcttggt gctgcaaaaa aagagatcat agaaaccagt 240

cagaaccaa

249

<210> 18780
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D9

<400> 18780

catcgcgtcc gcgacgcgt gggcggaccc gtggccgacg cgttggccag agcattgggc 60
cgtcaacaat ggacgaggcc gaggatgcca tgaagcagct cgaggaggtc ggcgccaagg 120
tgtccagcgt ttgacactag gtatactgac cccttttttt ttctctcttt tttttttaa 180
tttcgttctt tgatctttgc cccccaacct ttggtgtatc cccattgccc tttataagga 240
attgcggttt gccgagaaaag aatgacccgc taacgaggcg tcacaagata cgtgtaa 299

<210> 18781
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A5

<400> 18781

gaaaatctga tactggaaag gaggaagca caaatatggg catgaacca aatcttgaca 60
gtgatcttgc tgctctctta aattcatggt atgctgctgg gttctacact tgcaggtatc 120
tcatgctgca atctacaaag aattccagac cgtagtgtag taggcatgg cgtcttgag 180
atagatgtcc gagaagaagc aggttgaagc atcgctgggt gccttcatgt atgtgaatct 240
gctggagttg tgtctgtgct gtgccttgct tgtcactgct atttctagct agactttcgg 300
tacgctcgta tgtgaatctg ttgatgtcag gcagaaaatt gggtaaaatt gttgcattaa 360
ccgatctggt attcgttgta tatataacgc tgacatcagt aacctaataa agataagaga 420

<210> 18782
<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B10

<400> 18782

cccacgcgtc cgcccacgcg tccgcggacg cgtgggcgga cgcgtgtgac tagttctaga 60
tcgc 64

<210> 18783

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-D8

<400> 18783

ggcgtccatc taccgcaacg gcatcaacga caacgtgcgc atctacaaag gtggcgagaa 60
tatggatagg gtcacccgcg ccgtcgcagc atcgagactc accacgctgc agcagtggta 120
gatcggtagg tcatgagcaa ggaatgcaag catcggtcga cgtacaaaca caaatagtgg 180
ctctcgagta gccattgcat aggggatatg atcaattcag gcatccaacc atccgctgct 240
gctgtgttag acatgcggga gggggacgct gc 272

<210> 18784

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E6

<400> 18784

attgatcttc taaatcttgc tgagatggta aatgatttgg atgagagaga gaacttgaca 60
atgttgtatg tacagttttg ccacagagtg gtaatctgct tatagtccac cacatggcat 120
acaaagaaag gatgttttgt ccccttttcc atggaagggtt acaagcaaga tacctgggtga 180
taggtgttct agctgcaaca tgatttgtga agtttatata cttgtgttgt gccagcaaaa 240
tttctctggg taataggcca aaacatgtga cgtgcaccca atcataggta ataatacctt 300
gttgatgaag ccgaggagag cggagatgaa ct 332

<210> 18785

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F4

<400> 18785

ccacgcacgc gtccggaacc agtcaagtta ccttgggtctg ctccatgctt cgtctgcaat 60
aggagttttt gaggattaag ttgaggtttt gtaaagaaga cttgttcggtt actttttttg 120
tggattatta agatatatcc tatgtgtagt ttatgcttaa aatttaaaac caatgttgaa 180
tacaaaaaaa aaaaaaaaaa aaagaaaaac aaag 214

<210> 18786

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-A7

<400> 18786

tacgtttctt gctccccttt cagggttccg attgctaggc tagctgcagc tcagggtgctt 60
gtctgaggct gcctcctcat tggcaaccgg attgcctgct gctgggtggat gtggtgatca 120
acagtattat tacagagcca tgctatgtga acattactag tagcagtgcct cataaaagct 180
acaatcccat gtcctttttt tccccagtca tgtaaaactt ccaaactgct ccatggttca 240
aaactctgtt cttcaatata tcatcaatta tcgatt 276

<210> 18787

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E6

<400> 18787

ctcgcgggtc gacacaagcc tctaaagtca ctctgtgcgaa cgcgtgggcg gacgcgtggg 60
ggaagtctctg caatctgact atgtttttaa atttataatt gttgtcaatt agtgttggtg 120
ttggtttcgc ccatcaacgg atcaacctta ttggttatct gaacgacgaa ttgatatgtt 180
aactcgtgaa cttcgttata tttaggcagc aaaaaaaaaa aaaaaaaaaa aaagaaaaaa 240
aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaagaaaag aaaaaagaaa 300
a 301

<210> 18788
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-E9

<400> 18788

gcgacatgac ggcaataaaa gcagatgaca tcttgagcac gctacagagc ctggaccta 60
tccagtaccg caaagggcag cacgtcatct gcgctgacct gaaggctctc gaccgccacc 120
tcaaggcggc ggggcggggc ggcttgagcg tcgacgttag caagctcata tggactccct 180
acaaggagca aggctaaaag gcgaactgct ccgtgtctca gatttagact cgctgaccga 240
tgcgatgcag tccctgtaca tagcatctcc ccacagctca cttgacttga cttgactcgt 300
gtaccgtgaa actctacttg taactttgaa catccacatc gttgtctcct caaaaaaag 360
gaacgaaaaa 370

<210> 18789
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F6

<400> 18789

aaggatttgt agatatatgt tttaacgtaa aatccaaaac aaatccaata acttcaactc 60
aaagtattaa acattaagca taattgaagt tattggattt gttttggatt ttacgttaaa 120
ggattttag atatatgttt taaagttata ttattctctg tttgatgaaa aaaaaaaaag 180
gaaa 184

<210> 18790
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-G6

<400> 18790

aatgacccca gcgcctctcg tggcgctga aacaactaac cttgaatatg ctgcaagggt 60

actccttgtg actaagtacc gcacgcttcc agtgggtcgat agctcaggca aactgggttg 120
gatcattaca cgaggggaacg tcgtccaagc cgccctcgaa atcaagaaaa aggttgaagg 180
gacactctga gatgactacc tccaggtatc ctttttgctg ccacatgggg ggcttaggac 240
ttggacacat ctctagttgg caactgatca atcaaagcga ctgtcagagt gatcgatgaa 300
agtcgctatg tttatgaaga tttgcccgga gaagcacagg tgtatgtgta gtgtttgtta 360
tatatgctga tgcaatcctt gctggccaaa acacaggtta ccgattg 407

<210> 18791
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-B4

<400> 18791

ataagaagca aacaacaaag gccgtgctca ttcagaccct tcgtgtgtgt gtttcttgaa 60
cgttttatatc acatatgcag cacaaacggg aaatagtagt gcgaggacag tactacagct 120
catattgcat cgcaacgtgg aaatttagtt acagacgcgc ccagatcgag aggtacagca 180
cgacaaagag aggcaagaga gatagggggac cggagggcg cgggccgggg cccaagaccg 240
atgggctcgt gcgcaggaag ctgatgaggg tcctgtcgct cgtgcccttc ggctgccgtg 300
ccggacccat cgacgacgcg ccg 323

<210> 18792
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-F10

<400> 18792

ctggaataaaa tcaagattga ctggcactga aagtgtcatc gcgtcactct ttcatactta 60
ttaaatatca caagtctgtc ctgagatctc agcctgggtgc ctgcgtgctg cctttgcctt 120
gtatatgacg ttttactttc ttttagtctc aattattcaa tttttttttt actaaacaaa 180
ccaagacaac agaaaaa 197

<210> 18793

<211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-G10

 <400> 18793

 aaccacgcgt ccgaagctcc ccaacgaagt gcgagcgacc cacgtccaca cgacacgaac 60
 caccaccacc aaccagcagc cgcaccacgc acccagcgca aagcgatggc gtcgctcacc 120
 atgatggcgt ccttcgcccgc cgtggcggtg gccgcgccct cgcgcgcggg caccttcgcc 180
 gtggtcaggc ccgccaaggt cgaccgctgc caggagcccg ccacgctagc agcaaccgag 240
 gccaggcccg ccgccgacgg acgccgcgcc gtcattgctc cggtgctgc ggccggccgtg 300
 gcagccatcg gcggcgccgg cgcgcgccatg gcggggccca agaacgggac ccccgacgcg 360
 aagaataagt acgcggccat ctgcgtcacc atgccc 396

<210> 18794
 <211> 104
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-A3

 <400> 18794

 gcaaggacgc atgggttttag aacaggttac atcaatacat cgtagtccaa gatgattcca 60
 ggccttctgg ggcctgggt ggcctacaca ggggtgcagtt tgtg 104

<210> 18795
 <211> 67
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-D8

 <400> 18795

 acccagcgt ccgaaaaaca aggaaaaaat aaaacaaaaa cgaagagaac caagaaaaga 60
 cacttac 67

<210> 18796
 <211> 346
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A6

<400> 18796

accacgcgt ccgcagcccc caccatcga gccctagcg ccggcgctg gccgtatgga 60

ggctggtggc gaggagtctg cgatcggcgt ggtgctctcc gccaaagacca ccctggggga 120

ggagtctgag ggccagatcg tcgccttcga tcgacctcc aacctcctcg ttatccagga 180

gggcgtgggg agggcggaga gcggccagcg gcggcacgtg acggtgctga aggcgaacta 240

catccgggag ttctctgtgc tcaccaacgg agacgacct ctcgatcctg ccggttgcac 300

gccggacctt aactccattt atgcccggga ggatgctggc actcag 346

<210> 18797

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B6

<400> 18797

accacgcgt ccgcggacgc gtcggcgggc gcgtgggttt tgccggctgg gcagcaggac 60

atgggctcat gcgcaagtcg ttccactgca tgagcaatgg gcatcacacc attgcggagt 120

cttttcccat tacaggatgc acaccatcgg tggccttata cttcagcggg ggcgtcggac 180

ctgt 184

<210> 18798

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D8

<400> 18798

aaacatggcc gcctctccga gcccacatcg ccatggcagc cgtgccctgc tcccagctcc 60

ctcacctccc ccatggccga gcgccctctc cagccaccgg tgctcgccaa gcccatctcc 120

catggcgccc agcccagttt ccagcgccct cctccatcac cgcgcacctc tggtcgcttc 180

agctcatctc cctcgccgtg gagctctctg cgtgcgcccc tggttcctgc accctggcct 240

ccctcatctt ccctgggtcc ggccatagct ggccgccgct gctccatctc gagtcgcgct 300
 cgcccagctc tgttgggtgc gccctccctg ccgcagctcg cgctgtcgt cctgcttact 360
 cgagctcgcc ccggc 375

<210> 18799
 <211> 81
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F2

<400> 18799

aaatacaaaa aaaaaaaaaa aaacaaaaaa aaaaaaaatg aaaaaaaaaa aaaaaaaaaa 60
 caaaaaaaaa caaaaaaaaa a 81

<210> 18800
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-G6

<400> 18800

gggaagcaga agcgagacaa atccccagcc ggctccaaac cctagccacc tcccccgctc 60
 atcccttttc atcaccaga tctcgctggt gtctgctccg cctcgcttcg atgtgaccct 120
 accctacggt ttgagaccgt gttgcggtgt gtgcgtgtgt cgcggcgatt cgcgactcga 180
 gtacgactca aggtgtcaga ggcggtgcga gcgcaaataa aagactctgc gcaccgcact 240
 acggtggtgc tccggcggct gccgccggcg atctcgacc aagtcgtcgt ggtccaggtc 300

<210> 18801
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C4

<400> 18801

acccacacgt ccgcaatata agatatgttg cttggggaca ctccactctt gttggaactt 60
 ttggaaatgt gattgcaaca cctgaacatg aggaagcaac tataataacg ggcggtgact 120

ctacaggttc ttgacctaat tacgcatttt cgtcacctga aacaccttct aaatggtcac 180
 ttaaataaat tcagtggcct cctttttaca acttctcgac ggggaaaaca ccaagcttga 240
 caacattata ccctttacgc taaatcccc tttctccaac atgcgatat 289

<210> 18802
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C6

<400> 18802

cccacgcgtc cgcccacgcg tccggtataa tcagccgctt caattcaaga aagtaatgtg 60
 gcatgtaggt gacccaatgc cccacgagga atctgtggca tcagcagcgg ttggttctgc 120
 aatcaaagta aaagctgctg ccattgctgt gtgcacattc tcacggagag ctgcgacgtt 180
 agtagccaag tagaggtgaa caatgccaac tttagcagtt atcttccac gtgaacgatc 240
 cgatccatca aagtggcgtt ctta 264

<210> 18803
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G3

<400> 18803

actggcactg gcagcgaaga tccaaagata gcacaatcgc atctcacacg ccgagctatt 60
 tctactttga gagaatcccc ttctcccaca aggagcgagt aatttgaggc agagaccgac 120
 acagatggca gcggttatgg tgtctcgcca aggccgggag ctgcagcggg acagcgcgag 180
 cacgggcggg cgcggtgttg tgggctgcgt cccgtaccgc gtgcgcgggg gcgacggcga 240
 ggtggaggtc ctggtgatca gctcgcagaa gaagggcccc gcggggggcg tgctgatccc 300
 caagggcggg tgggagctgg acgagtccat ggacgaggcg gcccggcg 348

<210> 18804
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G5

<400> 18804

acggacgcgt gggcggacgc gtgggaggac gcgtggggaa tgccagggtgg ggaaccgatt 60
ggaaaggcca agctcaaaaa tggtttttat ttaggcttac tggaaatgat gatgagatta 120
accttaatgg tgatggatct gagaagccag agtttggtga atggacatgg atgactcccc 180
aggaagtat tgaaaaggca gttgatttca agaaacctgt atatgaggaa gcattgaaac 240
actttgcccc ctacctacag tcagatcccg ccgcttcac atagaagatt cgaccaattt 300
gcatacatta tctttttttt ttagttggaa actaccctgc tgtatctgga cccccaataa 360
tttgacacga cgca 374

<210> 18805

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-B4

<400> 18805

aaagcagaac aagttcaggg cgtccatgct gaccttcgac tttggccgga ccgcgctgga 60
cgtcgcgtga tgaacgcaca tacgctgccg gtcgagcggc attagtagtt ctctaaatat 120
agacagagga ggtaactttc gagaagaaaa aaaagttata tacagtgtac ctgggtttta 180
ggtttttgtc aggattcaga aagctgaatc*tgtaatatca atcgagctag gtgtaaacag 240
ataaggcgag cttgtcacgc gtactccgat cgctcactg taatggaaat gaagctaaaa 300
gatcatgggt gtcggttcac atgtcagtaa cgaaatcga 339

<210> 18806

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-F11

<400> 18806

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaa 69

<210> 18807
<211> 90
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C11

<400> 18807

agctctcagt ttgtatgatt atgggagtct aaactgagag atgcatcggt agaattaatg 60
ggtacaaact gctagcttta aaaaaaaga 90

<210> 18808
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B11

<400> 18808

ccacgagtcc gctatgttca agctagtcaa attgggtgggc attccttaca tctttgggaa 60
gcctactcca ttctggatcc agattattgt ggcatggcac tcaactgtac agtagattga 120
tcattccattg gcaaagtcca tcgaaggatg tgctgactgt gatcctccaa cgtaagggtgt 180
gtaaaaagggc aagaaaataa ttgttggggcg tcgagacatt cacttgtaaa aaaatagcac 240
atc 243

<210> 18809
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E9

<400> 18809

gcgagccta aaggcggagg ccaacggcga gtggctcccg ggccttccct ccccgcccta 60
cctcgacggc agcctgccgg gtgacaatgg cttcgaccog ttgggcctgg cggaggaccc 120
ggagaacctg aggtggtacg tgcacgcgga gctggtgaac gggcggtggg cgatgctggg 180
cgtggccggg atgctgatcc cggaggtgct gaccaaggcc gggctgatca acgcgccgca 240
gtggtacgac gccggcaagt cggagtactt cgcgtcgctg tccacgctgt tcgtgatcga 300

attcatcctg tttcactacg tggagatccg gcggtggcac gacatcaaga accccgggag 360
 cgtcaaccag ggaccccatc ttc 383

<210> 18810
 <211> 171
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-F11

<400> 18810

ttattttctcc tttgtcgttg cggcttggtc ttggcagatt ggttaagcat tgcaactgta 60
 acttctgtga gattgtctta cggttcacat ttcattgatg cctgcctaata aagccttctt 120
 ttcccaaata caactattaa cgttctagca gcctcacaaa aaaatatact a 171

<210> 18811
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-F5-F1A

<400> 18811

ttttaatttt tttttgaaac cgaggcaaag ctataatata gtgcaagtca tatatacacc 60
 agtccgtatc taccctagta gaacacttgg ccgagaacag agaacggaaa cggcacggag 120
 cccccagccc tgctgtacgc caggaccacg gcttcaatcc cgatcagccg cctcttggcc 180
 ggctgcatct ccgacacctt gtcgatcagg gccagctcct cctccttggc gagcatggag 240
 cgcacacgaa tgcccgggtc gtctgcgagc ttggcgagga acgccatcat ctgcgtggtc 300
 gtcttcccaa ggccaagcac caccctgtct ggctgtctga agccctcacc gacagccctg 360
 ctcttctatc cgccagaaga ggccccggtc gtcttaaaaa gattgggtgt cagccccggc 420
 aggcccaagg gggtc 435

<210> 18812
 <211> 60
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB84-028-F5-F2A

<400> 18812

caaaacaaaa aaacagnaca agttatatat tcacaatacc gtatataccc taattcaaaa 60

<210> 18813

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D5

<400> 18813

acgaaagctt ccattctccgc tccaaaaaac cagcagataa cacacttggtg ctcggggtcg 60

ggggaggggg ccggctagtgc caaatgaagc agcttcagaa gatggctctc ctacaactct 120

tgttggaataa tattgttctc ttattactgc cgctgctcgc tctgacctt tcttgctgcg 180

acgcggcaac cctgaagctg cagcggcacc acgcggacgg cggcctcagc ctgagccgcc 240

gggagctgct gcaccgcatg gccgcgcgca gcaaggcccg cgccgcgcgg ctgctctcgg 300

cctcggggag cgccgcgcta gaccggggga cttacgcca cggcggtccc g 351

<210> 18814

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E6

<400> 18814

acggtcagcc acagcagtat acattgcacg cagctagctt ggaccagcag cagctgtggt 60

catggcggcc tccatggatc gcctcgtcag ctctggcggt ggccgctcat ggctgcggc 120

ccctcgcccg tcgcgccggc atctcttcgc tgcgtcggc tccaggaaca agctcgtacc 180

gacgtgccct atcggattgg gggcggcctg a 211

<210> 18815

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E9

<400> 18815

acgcccacgc gtccgaagct agatagataa taagcgaggc cgagctggct gccatacata 60
 ggtatttgtgt ggtgtgtgtg agagagagag aaacagagtt cttcagtttg ctatctctct 120
 ctgcatgttt ggcgtcagtc tttgtgtctca tgtacgtacg tgtgtctacc tgcattgttg 180
 ttgatccgat tgcattctgt gtaaccatat attaattggc ccacgatgat atgatttgat 240
 actatatata tact 254

<210> 18816
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F5

<400> 18816

acgcccacgc gtccgcaact tcgccagctt cgtccggcag ctcaacacct acgggttcag 60
 gaaggtggac acggaccggt gggagttcgc gcacgagtcg ttctgcggg gccaggcgcg 120
 cctgctgccg ctggtcgtgc gcaagaggaa gaaggcgggc gccggcgccg gcgcccggcg 180
 ccgggagctg tgcgaggccg gggaggaggt gcgcccggacc atccgggccc tgcagcgcc 240
 gcgggagcag cagcgcgggg tggaggacga gctgcgggcc atggaccgcc gcctgcgcgc 300
 cgccgagagc cgcccgccc ag 322

<210> 18817
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H8

<400> 18817

acgggatatt gctctggagg aattggcccc caccatcct attaggcttt ggctggtgct 60
 gaacttctca actcgcctga ccatgcgtcc atgcttgacg tctcgccaaa taggtttgat 120
 ttttgcaccc attacatgga ctgtgtagtg ttattttctt ctttttttgc aatccttatg 180
 atccgaatgt gagctctgtg aaaaatatga actaagggtta ttatgcattt cacagttcag 240
 acagctgtta tgaaataacc tggcttttagc tataacttgt gactagtgcac acatattact 300
 attttttaca cactagtgtg aacaactaaa ggtctgtttg gttgggctgt ggctgtgg 358

<210> 18818
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-D7

 <400> 18818

 acggacgcgt gggcggaacgc gtgggcgcca tgttactcgg tttctccat tagttatttc 60
 cgctgcatta aaatttatga ttattatttc tgaaactccg ataatgtaat cactaatgat 120
 acttattaaa tttgtggtat tatgttttat tgtaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaa 219

<210> 18819
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-F2

 <400> 18819

 agatggaaga tcacaataaa ggacagtgc tgcagcatgc tctacatctt gcaagaacag 60
 tgactgcagc atgctctaca tcttgcaaaa ctgttcttga cagatggaag atcacaataa 120
 aggacaacca agggaaactt atgagaccac caaaatttat gaacaactac tttgggggttg 180
 gctgtgatgc aaagggtgcc ttagatatac acaacctgag ggaagagaac cctgaacggt 240
 tttatagcca gtttatgaac aagggtgctgt atgcaagaga gggagcaaag aacataatgg 300
 ataacacatt tgattgtttt ccttgggatg tcaagcttga gatagat 347

<210> 18820
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-A9

 <400> 18820

 gcaaatagtg ctactgtcat tctgtctcca tttttgactc tgtgcctccg tctccaacga 60
 gccagagccg tgccagaatt gtgcacgtat tctcgttctt attcgagctt ctacagcgat 120

tttttttctc acttccccga tgcaagcagc atattttgca aagcagtcag cacatgattc 180
 gctccaatcc gaccgatcga tcccctacgt tacttacacc gctttccata gattgtatta 240
 cagctgcaag ctgtgaagct gcagggcgat gcgtttccgc cggatccatc agtacggcat 300
 gacatggatg gtgcggctgt cgtaggcggc ggccatgcc ttcttctcat gctccatccg 360
 caccgctcgc agcagctct 379

<210> 18821
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B6

<400> 18821

acggacgcgt gggcggacgc gtgggggcgt tctgatatg gtccaccagg gtctgcacca 60
 ggctactagg agagcttgct tccagcggag acgagcacag gggcctcatc gcttatgcgt 120
 gctggctcgt ctacatgctc ttctcattgc tctcatctt ctgataccgt ttatggcatg 180
 gaagactatg ttcgcaattt gtttagcgga tgatgtggac agtggactgc caccagtcac 240
 tggagtgttt tgctatgttg ttgcagaact acatactatc tggccacttt ggggaattgt 300
 tctgtagtga tcgactagtt ccagtgggca tgggtgggtgt tcggtgtaaa tcttagtaga 360
 aataagagga aatcgaggtc cataaacagc aaatgtgcag tcatttggtt tt 412

<210> 18822
 <211> 196
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C4

<400> 18822

cgtccaccat aatcgaagac tacctatatg tgctggcgat ttagtccctt ctgtcaattc 60
 tcagatggaa acaaaaagat cttcatttgt gtaaataaat atctcactgc ccatccattg 120
 ggacacgggt cggtggctca aagaagaata gtgtgatagt atagtggact ctaaaaaaaa 180
 aacacgcact gacaaa 196

<210> 18823
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-D2

<400> 18823

acccaagcgt ccgcccacgc gtccgggctc cggctgcgca gcggccggcc gtgcctgggg 60
aagttcgtgt gccgccgcgc caagaacgcg ggatacgagg actacaagtt cccggacccc 120
atccccggagt tcgccgagca ggagacgagc aagttcaggg agcacatggc gtggcggctg 180
gagcagaaga aagaggacta cttcggggac catgtcgagg agatcgttga cgtctgcacc 240
gaga+catgg gga+attcct ggagaacgat taccgtggac cagggacgct cctggttcac 300
ccgttcctgg acatgaaagg cgagatcaag gagagggggc tccccggcgc acctcaaggg 360
gcacggggcg cgatagcatg ggccgaaaag 390

<210> 18824
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-D9

<400> 18824

gaaggaaaca ccgccgccgc cgcgccttcc attccagtac tcgcggagga aaggaacacc 60
agccagcgcc atggtcgcgt cgacgaccgc cgccgcggtg ctgtccccgc cgtccgtggc 120
cgggcttcgc ctggcgccgt ctccccgggc gcgcgtggcg ttccgcgcgg cgcgggcgcc 180
gcggtccgtg gtggcgcgcg cggagctgag cccgtcgctg gatgatggac ctgagcacgg 240
gcatggcgct cttcctgggc cgc 263

<210> 18825
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G3

<400> 18825

tttttttttt tgaaggtcgc tctgtgtcag ttgttagtgc tgtgttcac ctcgggtcca 60

gcagacccat gcatcaacca gcatggactg cggatcgatg ggtgctgtta cccccgtcag 120
gctttattct aagttaaatc ctaaggaaaa aaatggtgct tcttgggtgct gc 172

<210> 18826
<211> 499
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-028-F5-F1B

<400> 18826

gaaaccgagg caaagctata atacagtga agtcatatat acaccagtcc gtatctaccc 60
tagtagaaca cttggccgag aacagagaac ggaaacggca cggcgcccc gccctgctg 120
tgcgccaggt ccacggcttc agccccgac cgcgcctct tggccggctg cgctccgac 180
cccttgctga tcagggccag ctctctctcc ttggcgagca tggcgcgac nacgaggccc 240
gggtcgctcg cgagcttggc gaggaacgcc atcatctggg cgggccggct ctcgcgggcg 300
cgcaggcggc ggtccatggc ccgcagctcg tctccaccc cgcgctgctg ctcccgcagg 360
cgctgcacgg cccggatggt ccgcgcacc tctccccgg cctcgcacag ctcccgccg 420
ccggcgccgg cgccggcgcc cggcttcttc ctcttgcgca cgaccagcgg cagcaggcgc 480
gcttggtccc gcaagaacg 499

<210> 18827
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-F5-R1B

<400> 18827

gtcaggtagg ttgacatgga ccgttgggag ttcgtgcacg agtcgttcct gcggtgtcag 60
gcgtgccttc tgcgttggc cgtgcgcatg aggttaattg cgttcgccgg cgtggcgctt 120
tggcctggag ctgtgcgagg tcggggagga ttgcgcggtg accatccggg ccgtgcagcg 180
cctgtttgag catcagcgcg tgggtggagta cgatcttcgg tccatggatc gcctccttcg 240
cgccgccgag atccggccgt ccagatgat tgcgttcctc tccaagctct ccgacgacct 300

gggcctcgtg ctgcgcgcca aactctttaa ggaggaggag ctggccctga tc 352

<210> 18828

<211> 351

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-022-Q1-E1-D1.F2

<400> 18828

gcggttcgttt tgtcttgggg cctcttgggc gggcggcctt tttttttttt tttttttttt 60

ttttgtgggg gtggggggng tnnntggttg tgccgggggt tcnntngccc gggggggngg 120

ggtgcgtggc gtgcttggtg gcgttttttt gttgggggggt tggttttttc ggtttttgct 180

gttttttggg gggggggggg gtgggggtgg gtgctgtgtg ggggtgtgcct ggtgcccgtg 240

ttttgtggtg gggggccgtg gctgggtctg cggggccgtt gggggggcgt tngtggcgct 300

tgggcgcggg ggggtgggggt ggggggttgc gttttggggg gggcgtggct c 351

<210> 18829

<211> 594

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-022-Q1-E1-D1.R2

<400> 18829

gacccatctt tcggcccgcg tccggaccaa cccccctca ccanaaaat cccagttctt 60

tgggtccgct cagagaggcg gcggcgatgt ctgggcgcgg caagggcggc aagggtctgg 120

gcaagggcgg cggaagcgc caccggaagg tgctttttta caacatccag ggcacacca 180

agccggcgat gcggaggctg gctaggaggg gtggcgtgaa gcgcatctcg gggctcatct 240

acgaggagac ccgcggcgtg ctcaagatct ttctcgagaa cgtcatccgc gacgccgtca 300

cctacaccga gcacgcgcgc cgcaagaccg tgaccgccat ggacgtcgtc tacgcgtca 360

agcgccaggg acgcacccctc tacggcttcg gaggctaggc taggcgcctc ttcatagtcg 420

gggactgggt aggggacatg tctctgtgtg atgctttctg tgggtattatt gctgcaatag 480

ccgtgtaatc catcgcttct gcaatgaagc gctcggaagc atgctacgta tgttgtgtct 540

gtgggtgatt gtatttctgg tagtaacagt gattgttcct gaattttgga taat 594

<210> 18830

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D6.F2

<400> 18830

aaaacctgct gccctcttgc tgtcttaacg gcgcggtttg gcggggccgg gccccggcgc 60
cagtgggtcg ggaccggccg tggtcgcgct cccgccgct gtgggcgct ctccgcgccg 120
ggcgcgcaac aacgtggcgc gcgcgggcga cggagccgcg ggagggcggg ggggctacgg 180
cgggcgttgc gtgtgccggg tacacttgcg cttgatgtgc gtgtcatatt ttgatctttg 240
cgtgcgcccc ggagtgcccg gatgagcgac cacctgcccg acgcgcgcgc atggaaaatg 300
attgatcggg aggagggaaa taatggccgc ggcggcggcg aactgaactg atgcttactg 360
tgcgacgggc gtgagctgat gatgacttct ctcgtcgga gtgccggctg agtcggcgg 419

<210> 18831

<211> 680

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-023-Q1-E1-D6.R2

<400> 18831

cctccgcttt ggcggaagg aagctgccnn nggcttcgcg tgggatggaa actaccnntc 60
cgccccgnan nctcaagcg cnnggcaact tcacgnnacc gacganccga cgaggtcatn 120
cnnatcaagc tccacgccc nctgctcggc taacatatnn taagcacctc agtncnntca 180
gttcgcgcgc gccgcgcgcg cgcggtaccc cattannntt cctcnnnct cctcnnnact 240
caatcanntt ttcnncatc gtcggccccg cccccgtcgc gccgcccagg tggtnnngct 300
catcgnnccg ggcanngctg ccggnnggcg cacggaccaa cgagatnnc aagaactactg 360
gnannacacg cacatcaagn ncgcaagctn ngctgaccgc cggnnecatg accccgcaga 420
accgnnnacc gcccnngctg agnncgcgc cnnngccgcc cttcnnaccg ccggcncnnt 480
cccgtcgcgc cgcgcccgc cnngccacc gtnngctgtt cgcgcgcgc cgnngcgcgc 540

tcggnaggga ccggcgnggc cacagcnnag cggcgnggcg ggaggcgcn cgaccacgc 600
ngccgcggtn ngccccgacc ctcaacnct ggacctgtcc gtggngccc gccgtgnctc 660
gccgccccaa gacgccggcg 680